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WITH THE CO-OPERATION OF

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Joint-Lecturer on General Anatomy and Physiology in the Medical School of St. Bartholomew's Hospital, London.

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The True Teeth and the Horny Plates of Ornithorhynchus. By Edward B. Poulton, M.A., F.L.S., of Jesus and Keble Colleges, Oxford. (With Plates II, III, and IV) 9

Note on the Fate of the Blastopore in Rana temporaria. By Harold Sidebotham, M.R.C.S. (With Plate V) . . 49

Morphological Studies.—I. The Parietal Eye of the Cyclostome Fishes. By J. Beard, Ph.D., B.Sc. (With Plates VI and VII) . 55

On Some Oigopsid Cuttle Fishes. By F. Ernest Weiss, F.L.S., rom the Zoological Laboratory, University College, London. (With Plates VIII, IX, and X) 75

The Organ of Verrill in Loligo. By Malcolm Laurie, B.Sc., from the Zoological Laboratory of University College, London. (With Plate XI) 97

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Development of the Fat-bodies in Rana temporaria. A Contribution to the History of the Pronephros. By Arthur E. Giles, B.Sc.(Lond.), M.B., Ch.B.(Vict.). Platt Physiological Scholar, Owens College, Manchester; House Surgeon, Manchester Royal Infirmary. (With Plate XIV.) 133

Two New Types of Actiniaria. By G. Herbert Fowler, B.A., Ph.D., Assistant to the Jodrell Professor of Zoology in University College, London. (With Plate XV) 143

Morphological Studies. II.—The Development of the Peripheral Nervous System of Vertebrates (Part I. Elasmobranchii and Aves). By J. Beard, Ph.D., B.Sc., Assistant to the Professor of Human and Comparative Anatomy in the University of Freiburg i/B. (With Plates XVI, XVII, XVIII, XIX, XX, and XXI) . . . 153

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Note on a New Organ, and on the Structure of the Hypodermis, in Periplaneta Orientalis. By Edward A. Minchin, Keble College, Oxford. (With Plate XXII) 229

On Certain Points in the Structure of Urochæta, E. P., and Dichogaster, nov. gen., with further Remarks on the Nephridia of Earthworms. By Frank E. Beddard, M.A., Prosector to the Zoological Society of London, and Lecturer on Biology at Guy's Hospital. (With Plates XXIII and XXIV) 235

On the Development of Peripatus Novæ-Zealandiæ. By Lilian Sheldon, Bathurst Student, Newnham College, Cambridge. (With Plates XXV and XXVI) 283

Note on the Development of Amphibians, chiefly concerning the Central Nervous System; with Additional Observations on the Hypophysis, Mouth, and the Appendages and Skeleton of the Head. By Henry Orr, Ph.D., Princeton, New Jersey. (With Plates XXVII, XXVIII, and XXIX) 295

Studies on the Comparative Anatomy of Sponges. II. On the Anatomy and Histology of Stelospongus flabelliformis, Carter; with Notes on the Development. By Arthur Dendy, M.Sc., F.L.S., Demonstrator and Assistant Lecturer in Biology in the University of Melbourne. (With Plates XXX, XXXI, XXXII, and XXXIII) 325

On Some Points in the Natural History of Fungia. By J. J. Lister, M.A. 359

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Studies in the Embryology of the Echinoderms. By H. Bury, B.A., F.L.S., Fellow of Trinity College, Cambridge. (With Plates XXXVII, XXXVIII, and XXXIX) 409

On the Ancestral Development of the Respiratory Organs in the Decapodous Crustacea. By Florence Buchanan. A Paper read to the Biological Society of University College, London. (With Plate XL) 451

1.
2.
3.
4.
5.
6.
7.
8a.
8b.
8c.
9.
10.
Br
Cu
Pr
Pt
Tr
DE
M
F
Weldon del.
F Huth, Lith^r Edin^r

A

Fig. 1.
× 14.5

Fig. 2.

Fig. 3.

B

Fig. 4.

Fig. 5.

Fig. 6.

Fig. 7.

Fig. 8.

Fig. 9.

Fig. 10.

Fig. 11.

C

Fig. 12.

Fig. 13.

Fig. 14.

Fig. 15.
× 14.5

Fig. 16.

Fig. 4 x 128

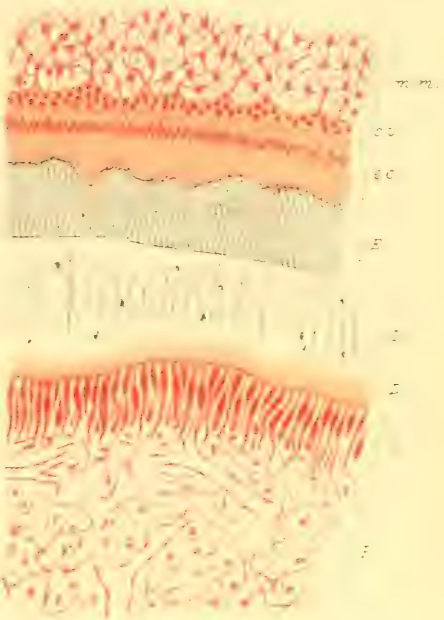


Fig. 1 x 128

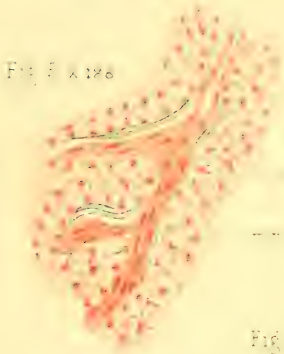
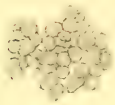


Fig. 5 x 128

Fig. 2 x 128

Fig. 3 x 128



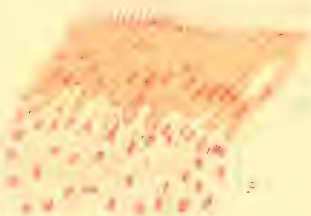
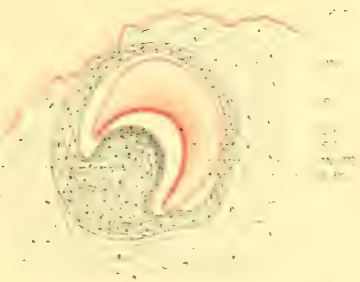


Fig. 7 x 128



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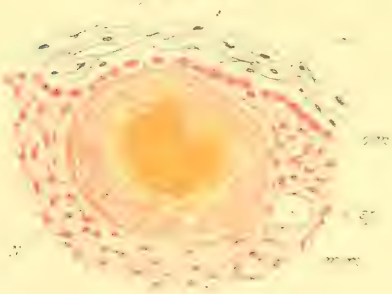

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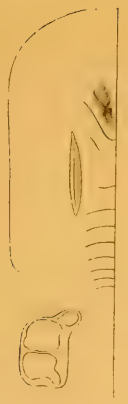

Fig. 4 x 24 5

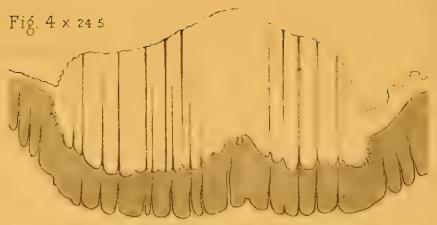

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Fig 2 n.s

Fig. 8 x 405

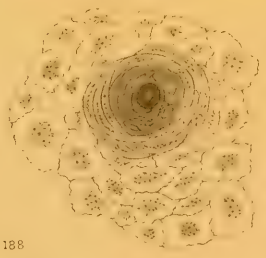
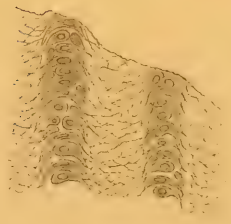


Fig. 3 n. s.

Fig. 10 x 188



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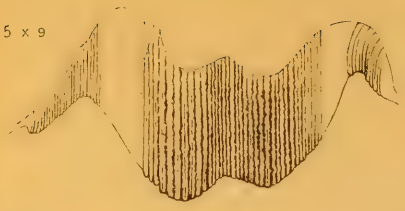


Fig. 7 x 50

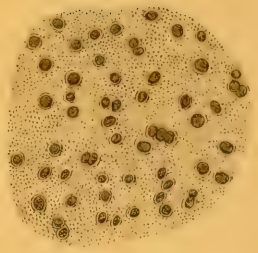
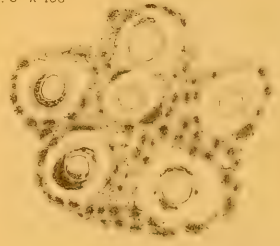


Fig. 9 x 188



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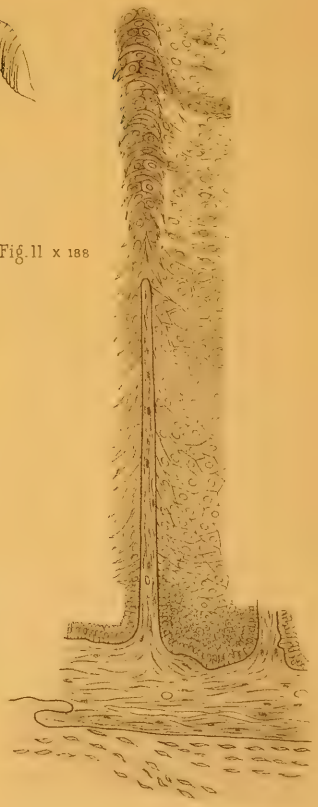

Fig. 13 x 50

Fig. 12 x 405.

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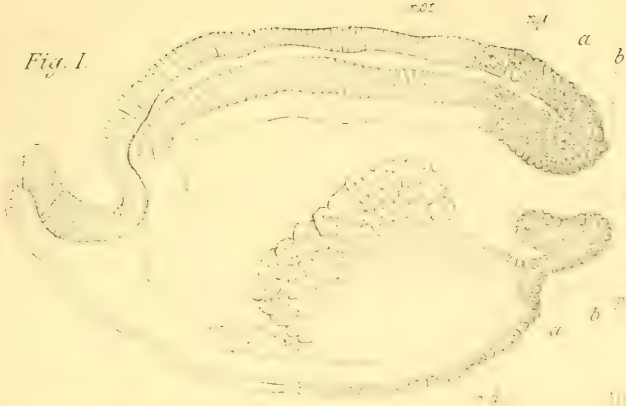

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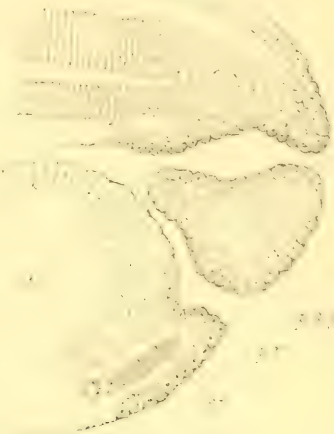

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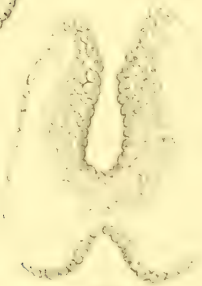

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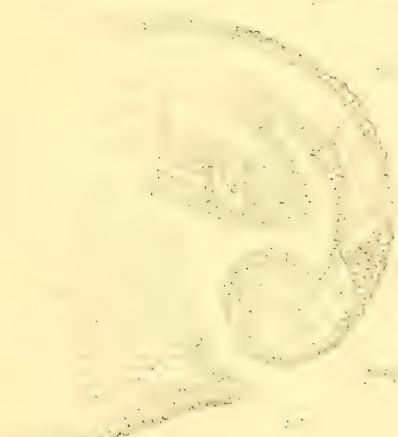

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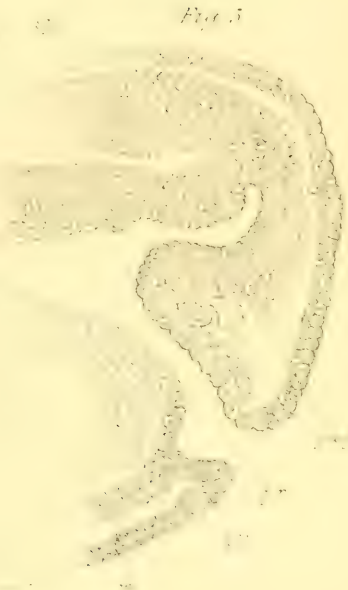

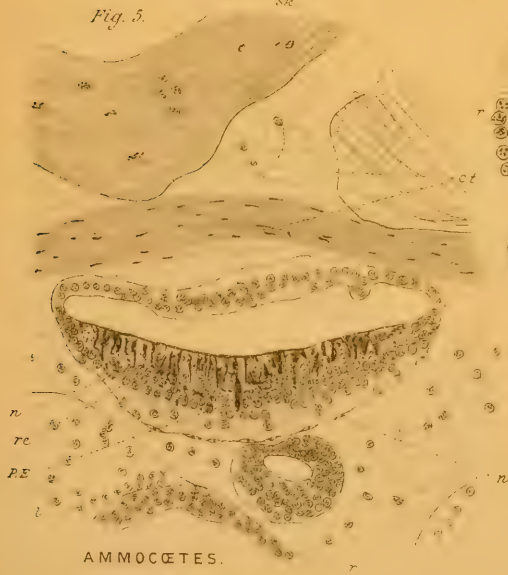

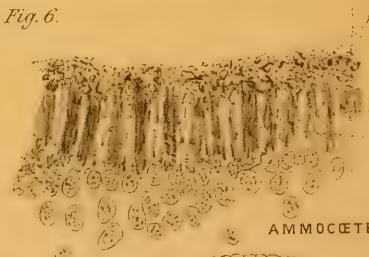

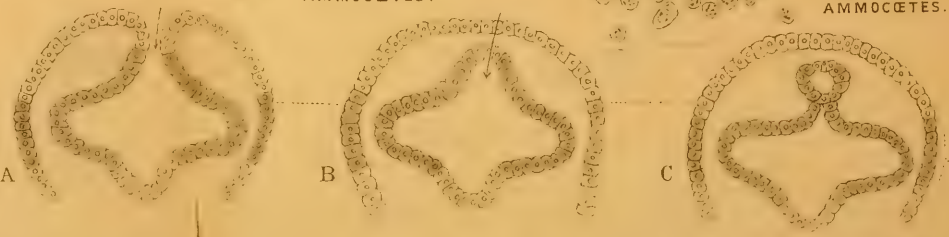

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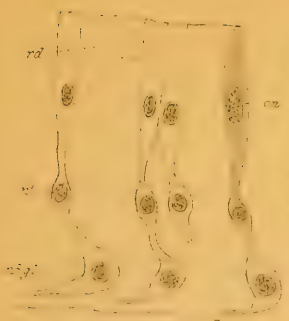

PETROMYZON.

Fig. 8.

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AMMOCŒTES.

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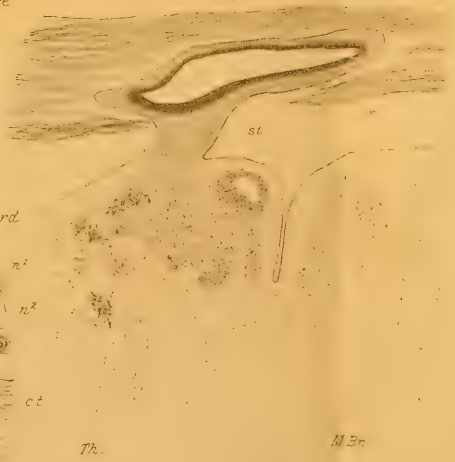

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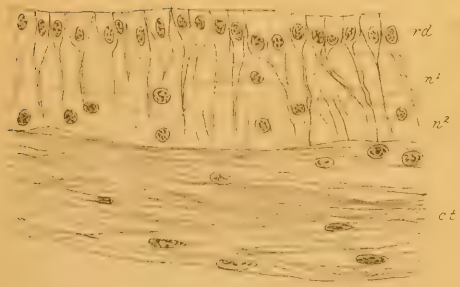

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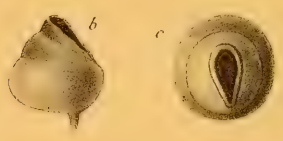

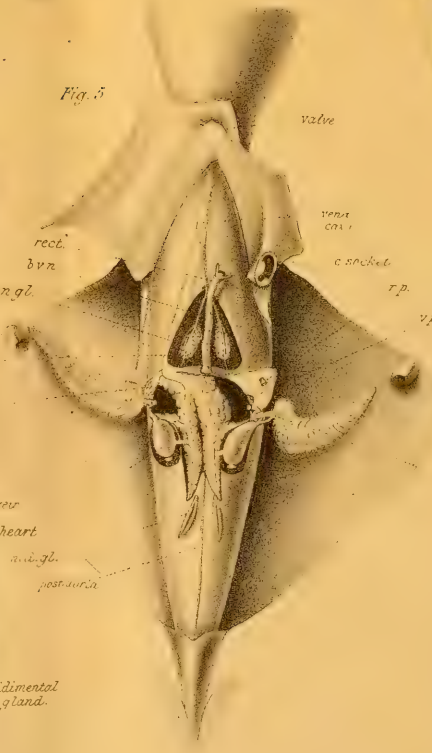

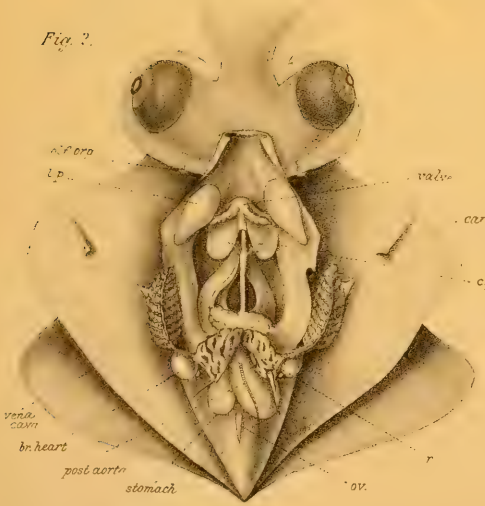

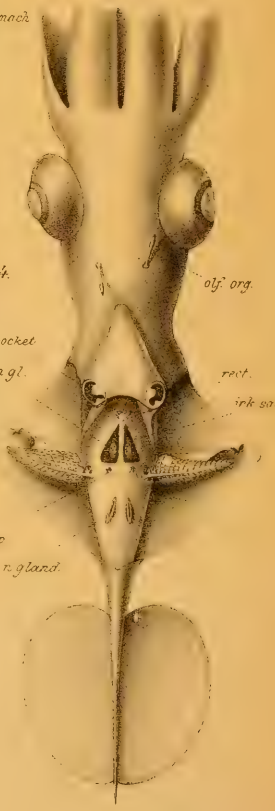

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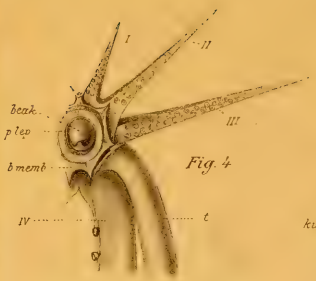
Figs 1-3, VÉRANIA SICULA.

Figs 4-8, CHIROTEUTHIS VERANYI.

Fig. 1.

Fig. 2.

Fig. 3.



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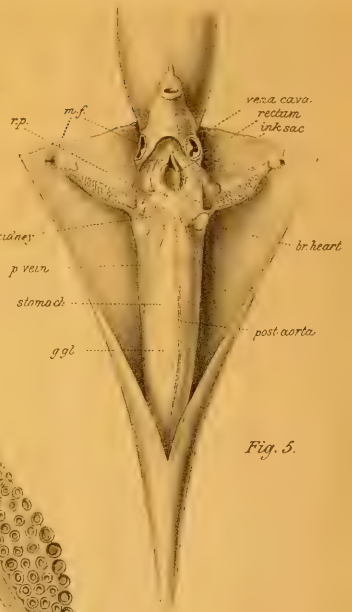

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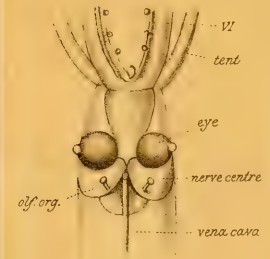

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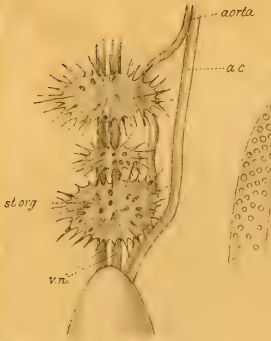

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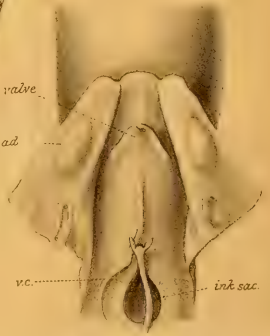

Fig. 8.

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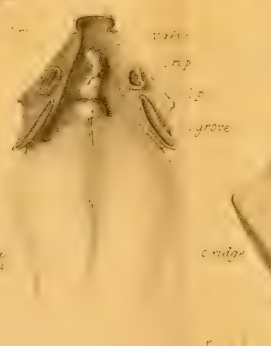
DORATOPSIS VERMICULARIS. (Rochebrune)

Fig. 1

Fig. 8

Fig. 9

Fig. 10



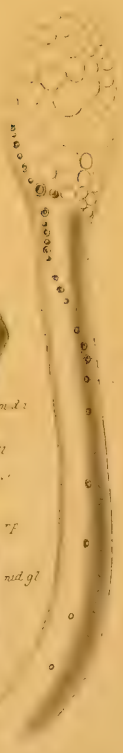


Fig. 5.

Fig. 6.

Fig. 7.

F.E. Weiss del.

HISTIOTEUTHIS.

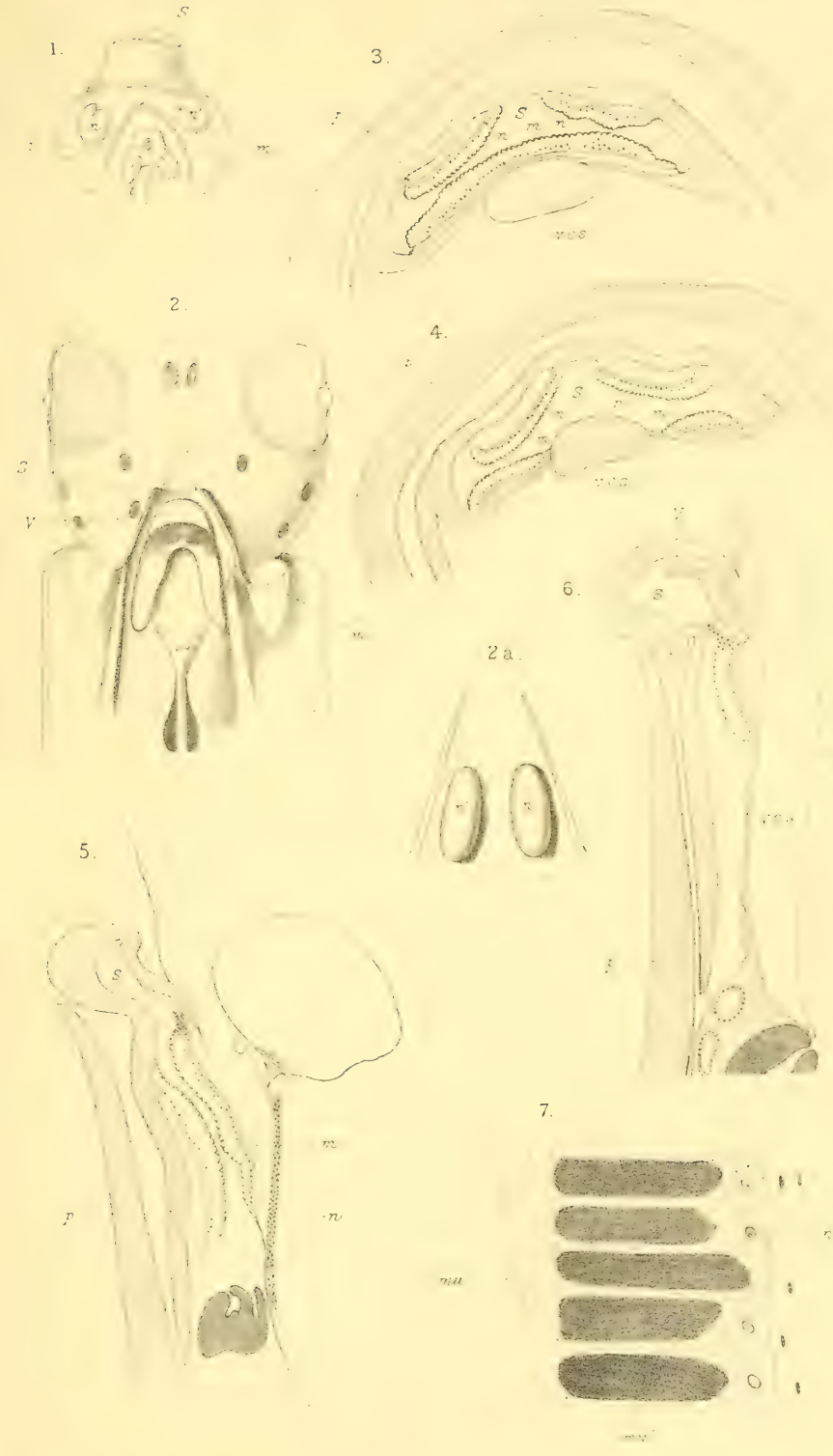
LOLIGO.

THYSANOTEUTHIS.

F. Huth, Lith^r Edin^r

Figs 1-4, TRACHELOTEUTHIS BEHNII.

Figs 8-12, HISTIOTEUTHIS RUPPELLI.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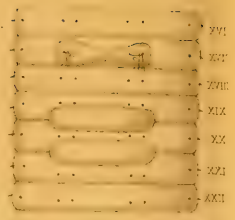
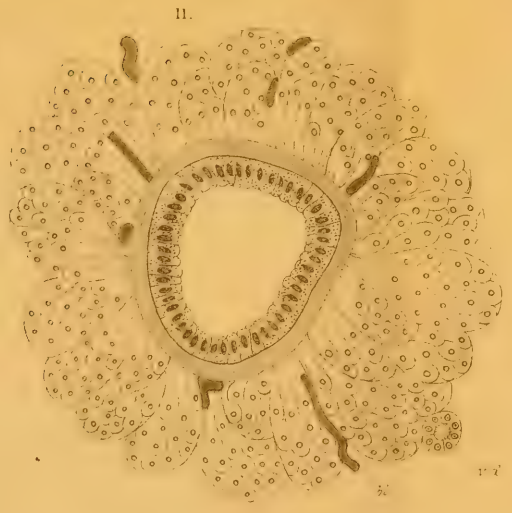
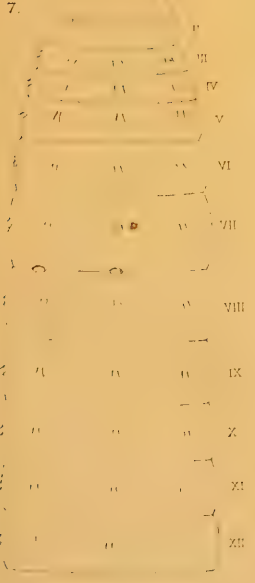
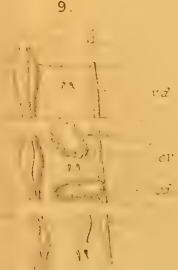
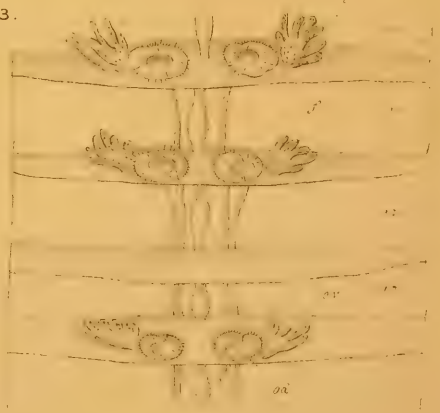




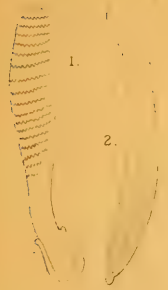






F.E.Beddard del.

F.Huth, Lith^r Edin^r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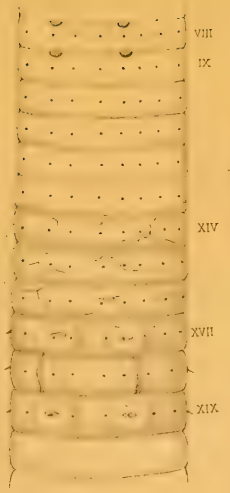
VIII
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XIV
XVII
XIX.
3.

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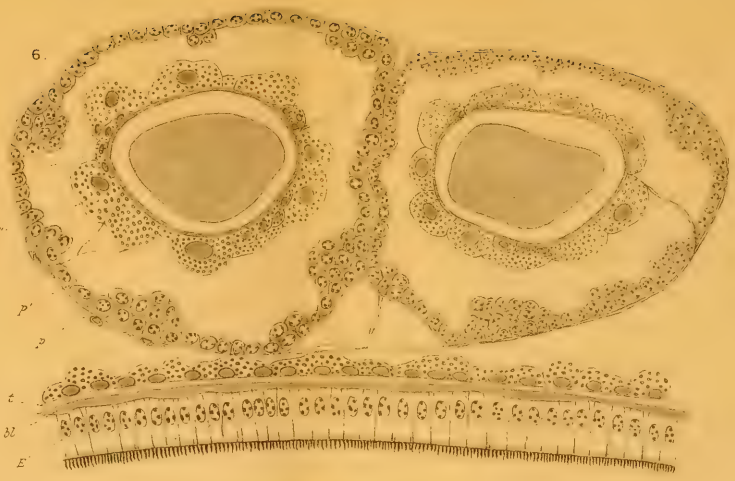
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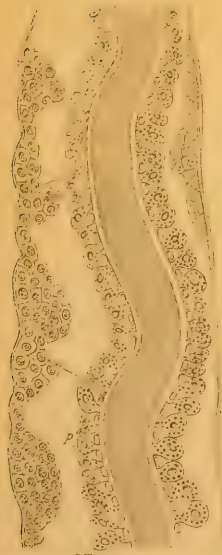
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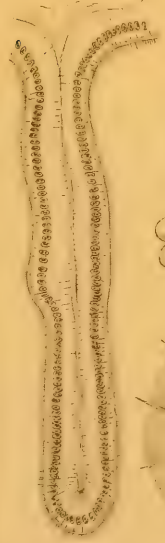
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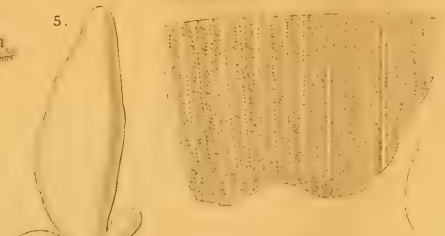
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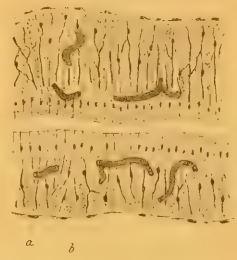
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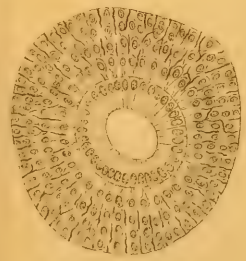
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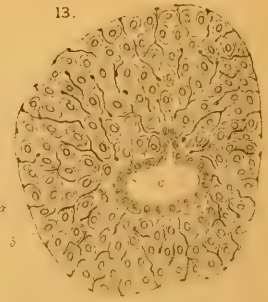
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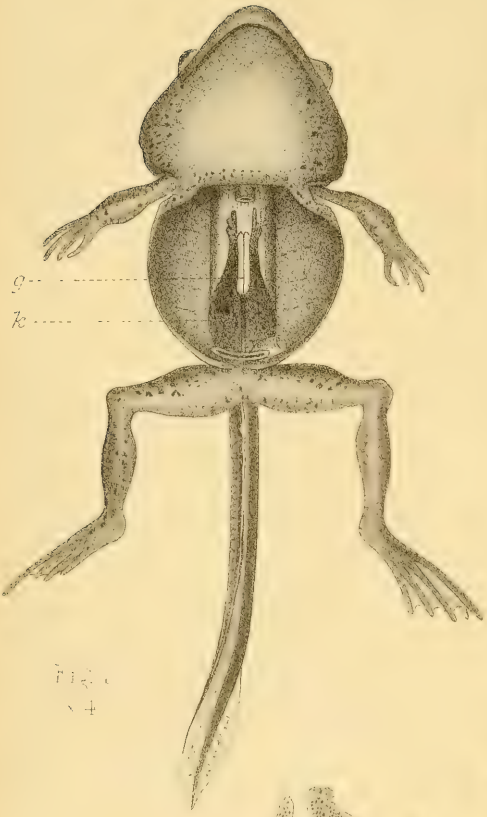


Fig. 1
×4

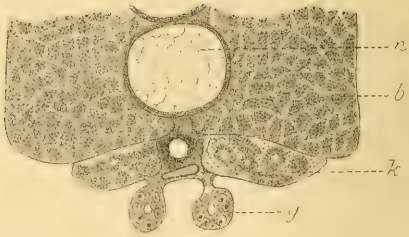


Fig. 3
×50

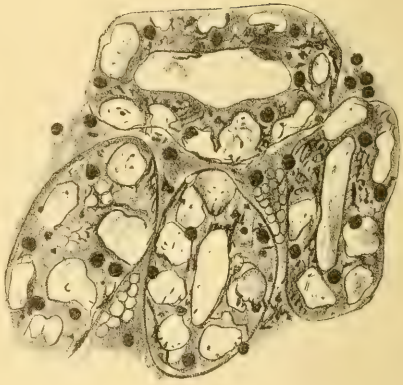


Fig. 4
×350

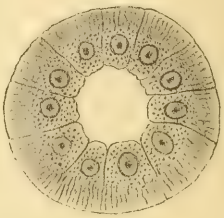
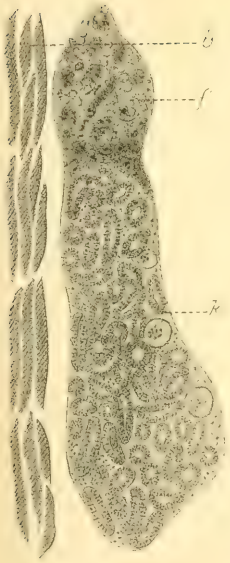


Fig. 5
×250

A.E.Giles.del.



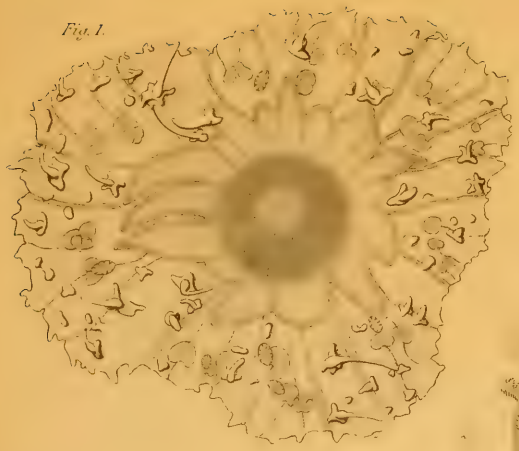


Fig. 1.

Fig. 2.

Fig. 3.

Fig. 4.

Fig. 7.

Fig. 8.

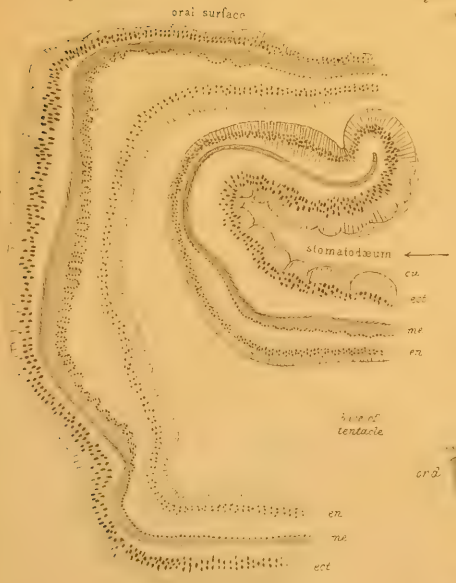
Fig. 5.

Fig. 9.

Fig. 10.

Fig. 13.

Fig. 16.



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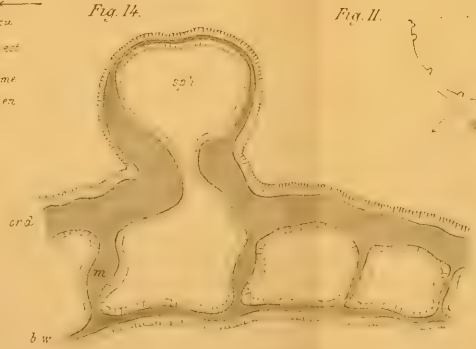


Fig. 14.

Fig. 11.

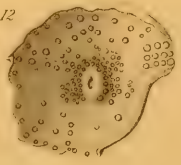


Fig. 12.

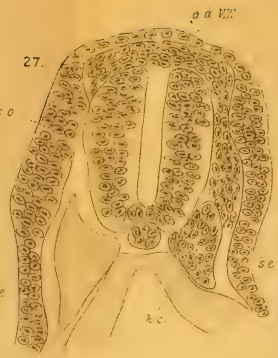
Fig. 15.

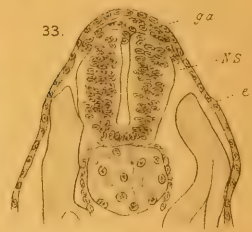
invaginated oral surface

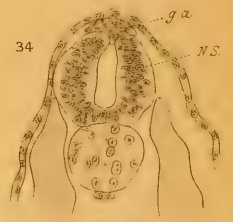
G.H.Fowler del

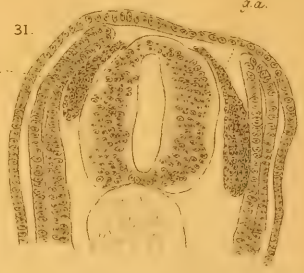
F.Huth, Lith.r Edin.r

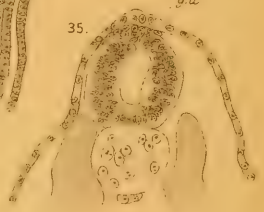
TORPEDO. OCELLATA.

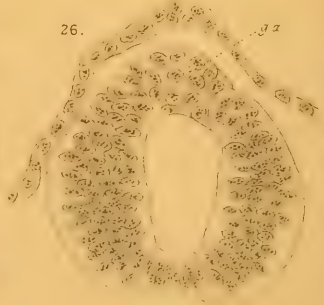


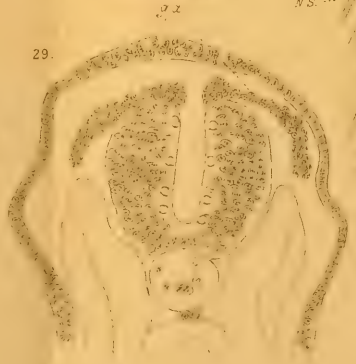








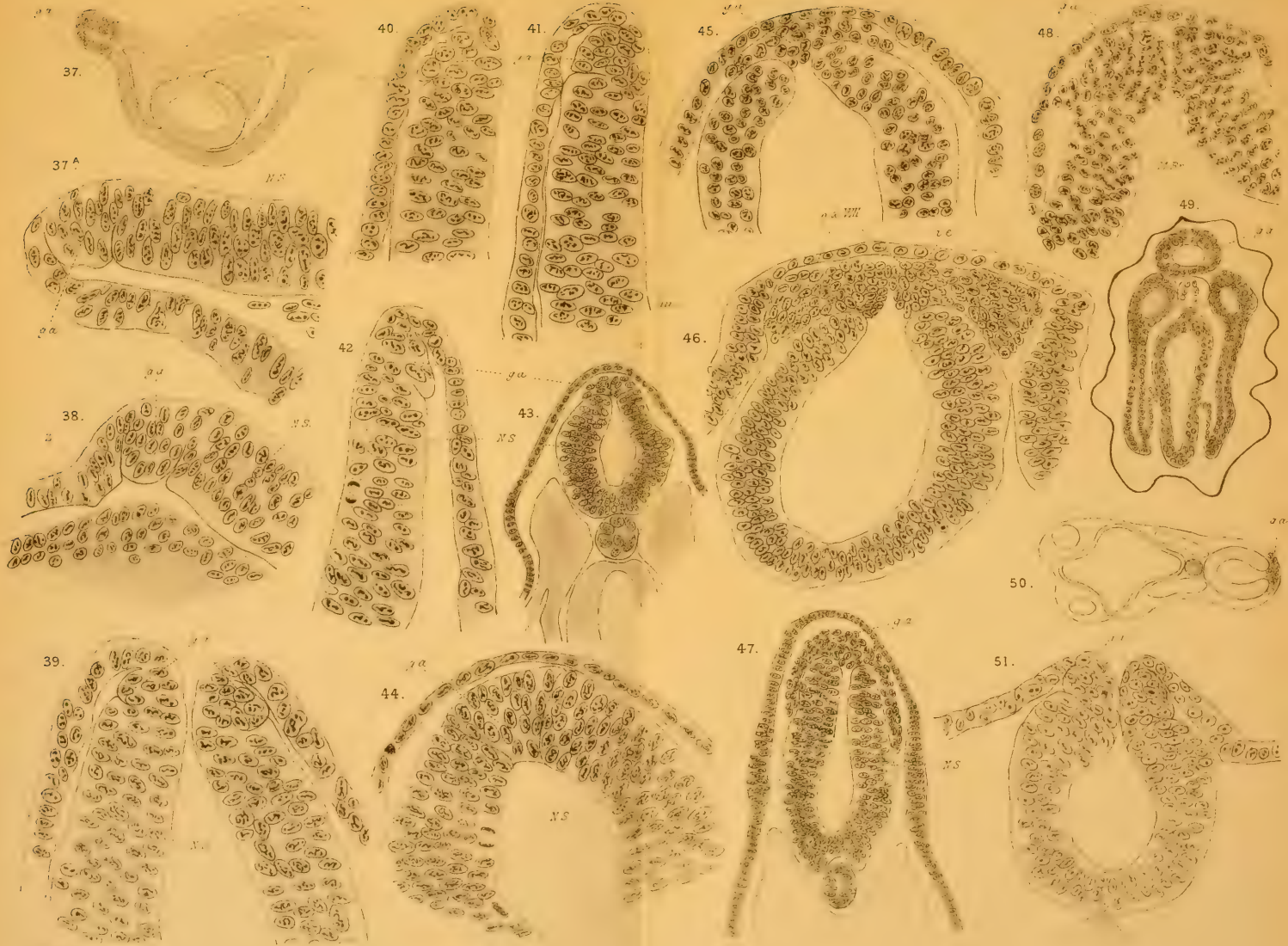




J. Beard del.

ELASMOBRANCHII.

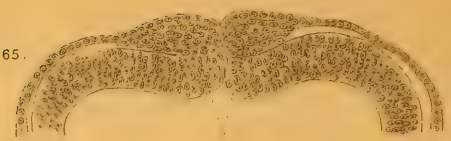
F Huth, Lith^r Edin.^r

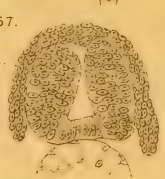


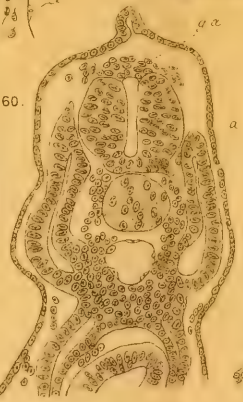
Figs 37-45 ELASMOBRANCHII.

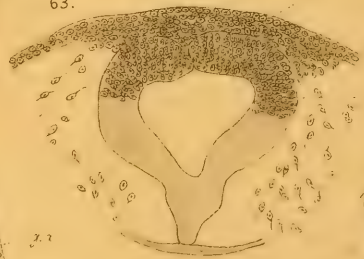
Figs 46-51 CHICK.

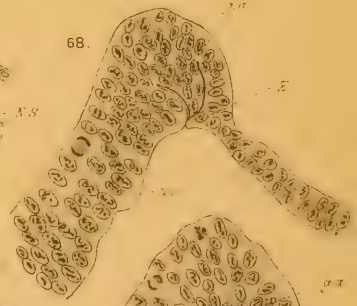
F. Huth, Lith.r Edin.r

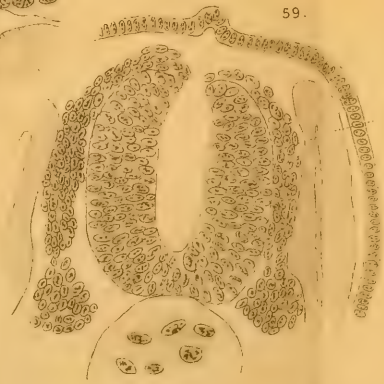












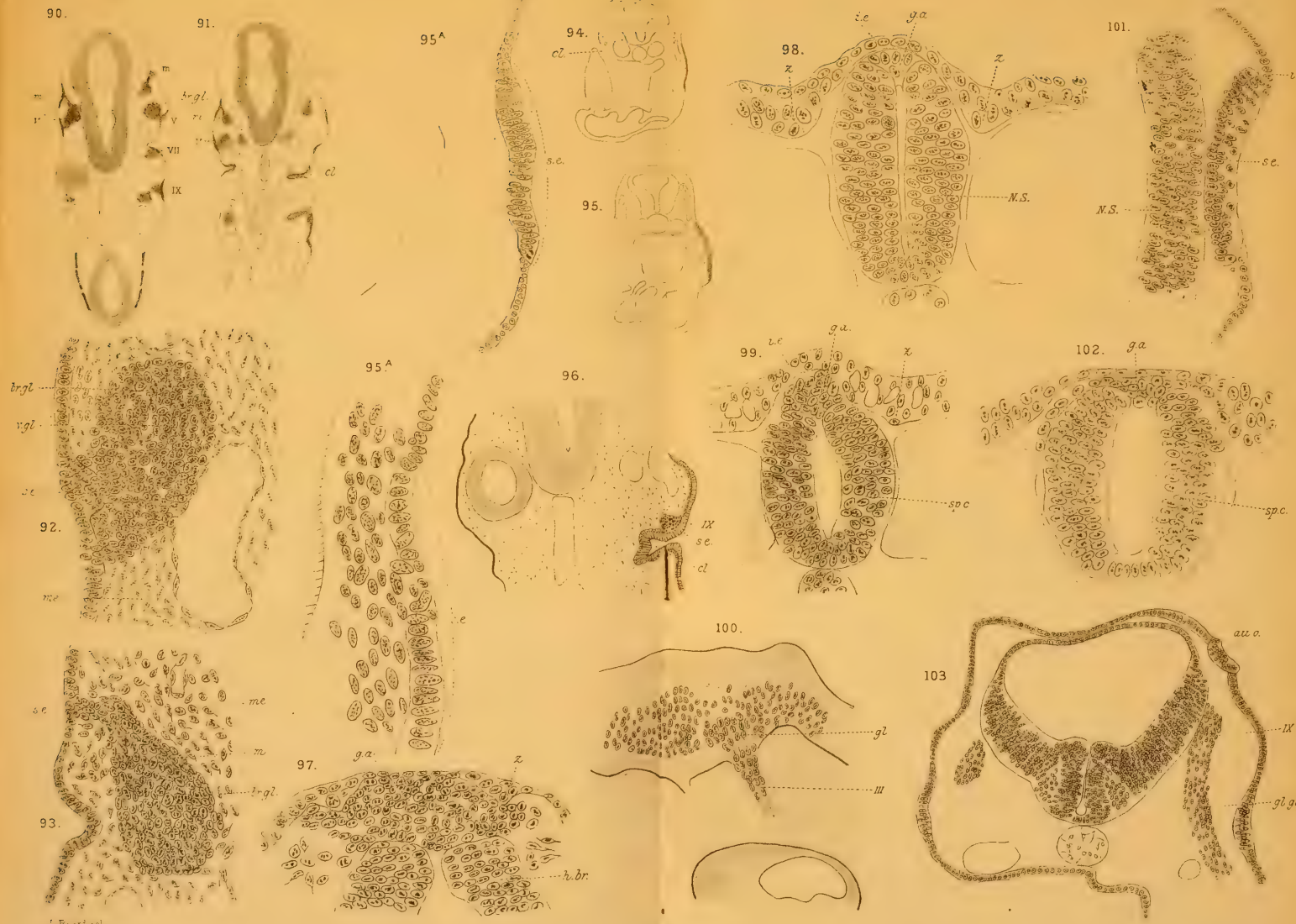
J. Beard del.

F. Huth, Lith^r Edin^r

Figs 52–54, 56–61 ELASMOBRANCHII. Figs 55, 62, 63, 65–69 CHICK. Fig. 64 LOPADORYNCHUS.

All the Figures are from CHICK EMBRYOS.

F. Huth, Lith^r Edin^r



Figs 90-93, 96-99, 102 CHICK. Figs 94-95^A, 103 T. OCELLATA. Figs 100, 101 LACUTA.

F. Huth, Lith^r Edin^r

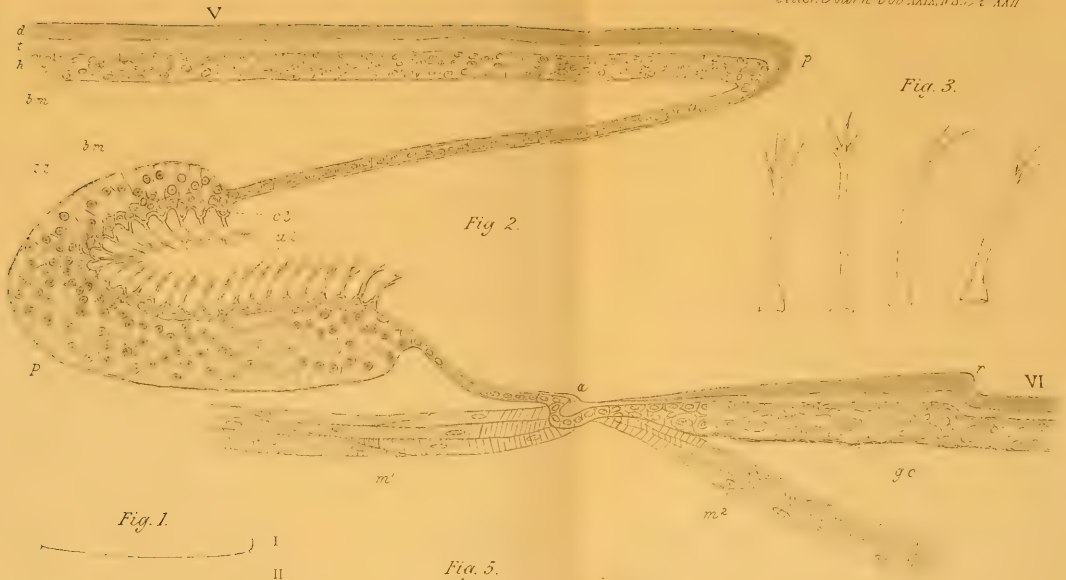


Fig. 3.

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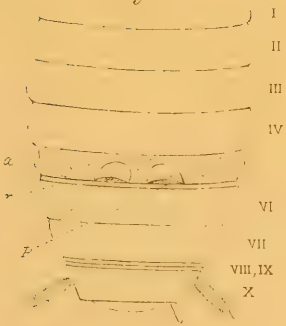
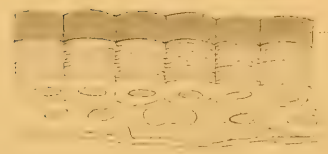
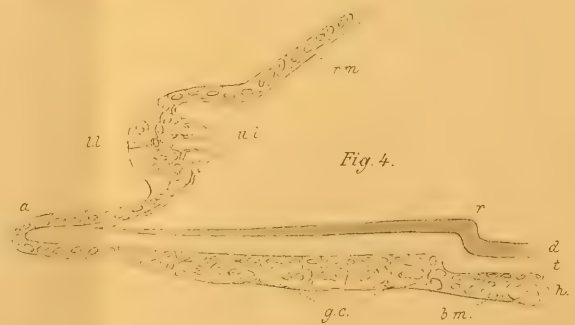


Fig. 5.

Fig. 6.

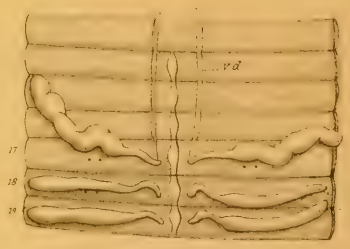
Fig. 7.

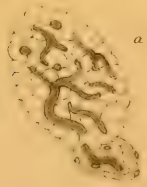


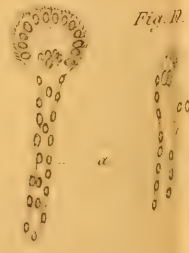


E.A. Minchin del

F. Huth, Lith^r Edin^r







F.E.Beddard del.

F Huth, Lith^r Edin^r

Fig. 13.

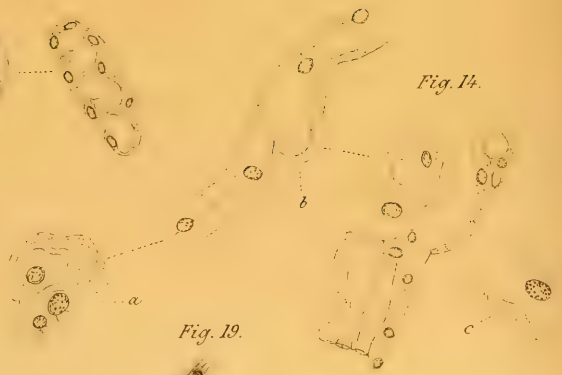


Fig. 14.

Fig. 18.

Fig. 19.

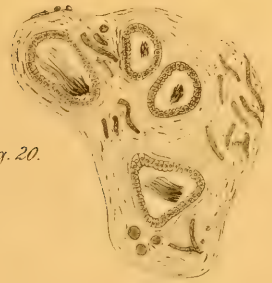
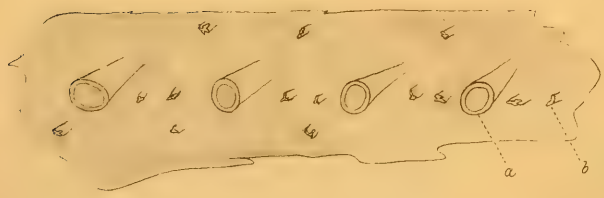


Fig. 20.

Fig. 21.



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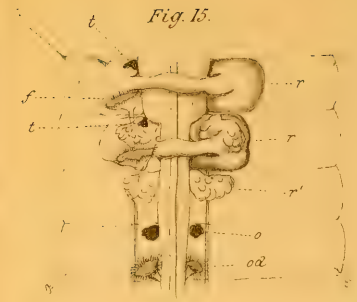


Fig. 15.

Fig. 12.

Fig. 22.

Fig. 16.

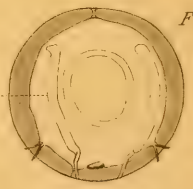


Fig. 17.

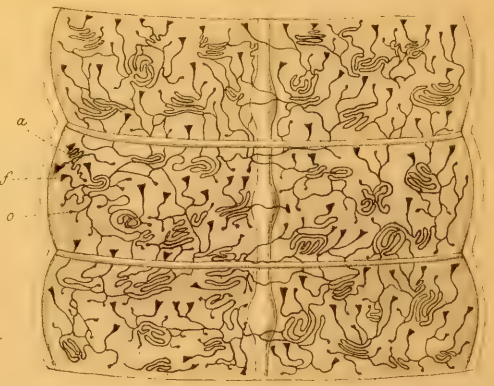


Fig. 24.

Fig. 1

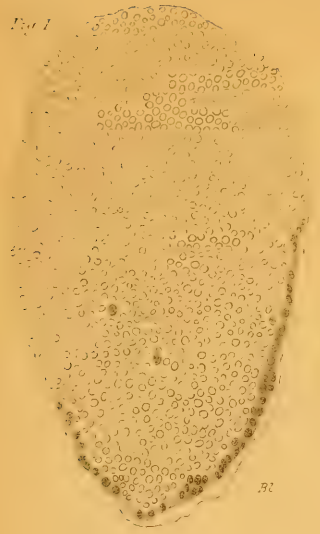


Fig. 2

Fig. 4

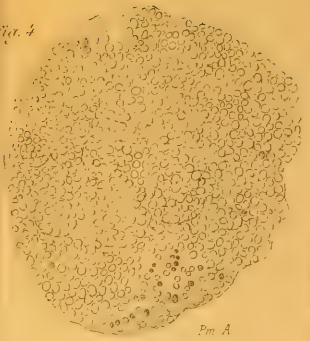
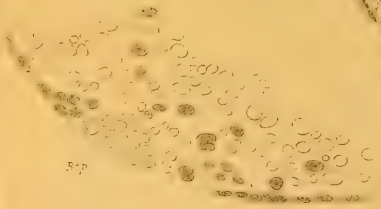


Fig. 3.

Fig. 3 a



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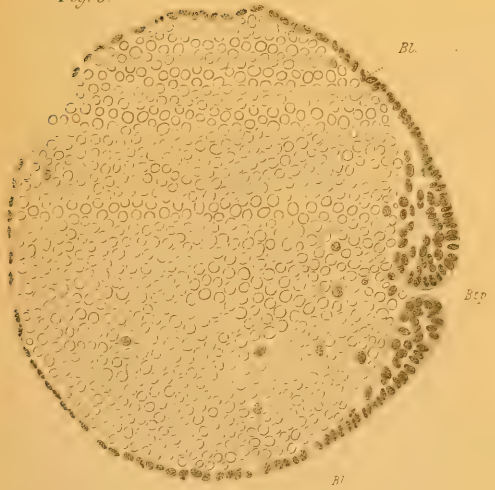
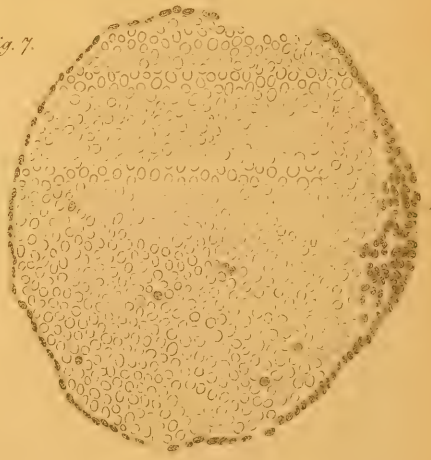


Fig. 6.

Fig. 7.



F Huth, Lith^r Edin^r

Fig. 8.

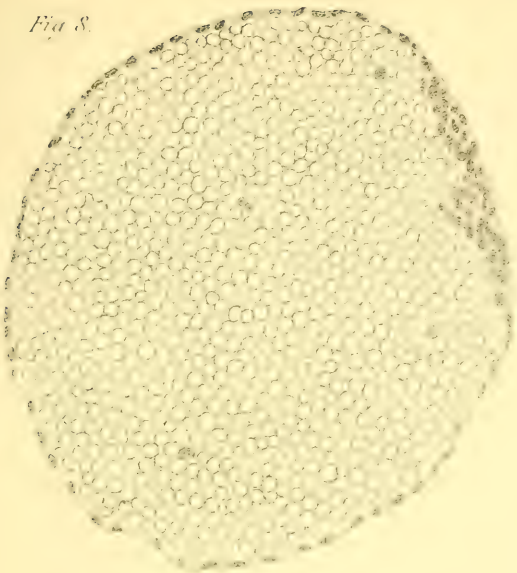
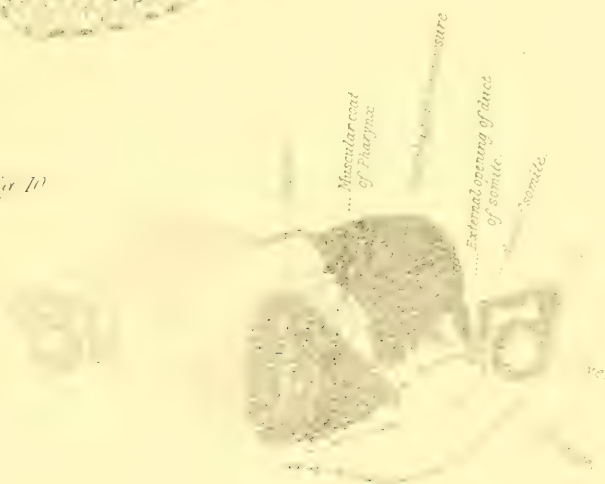


Fig. 9.

Fig. 10.



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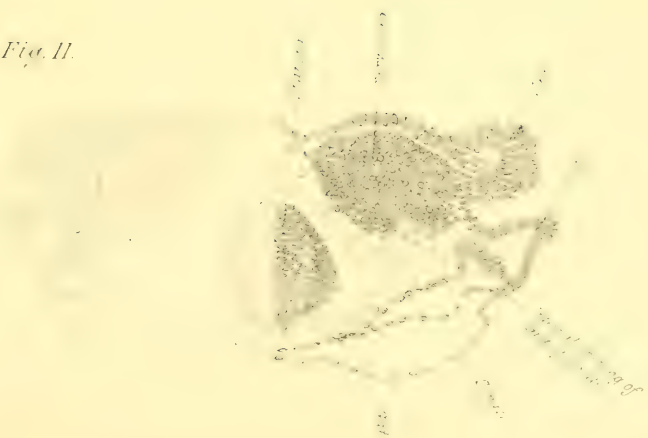
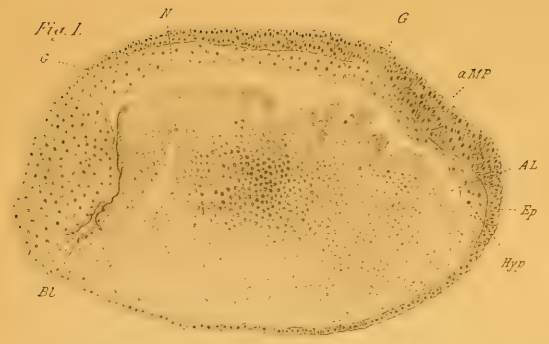


Fig. 1.



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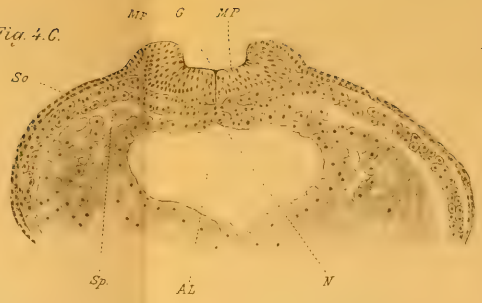
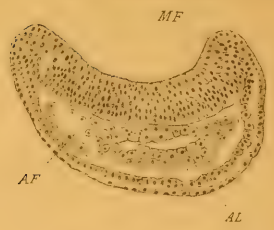


Fig. 8.C.



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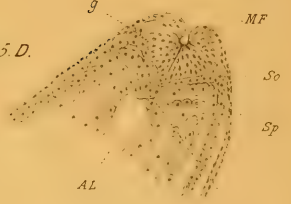

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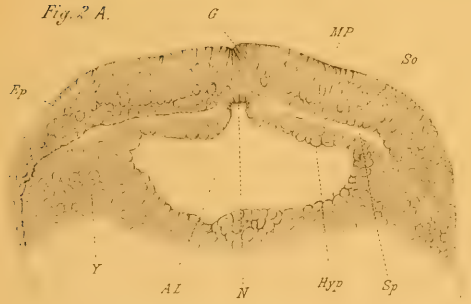
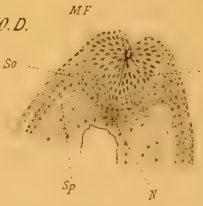


Fig. 6.A

Fig. 10.D.



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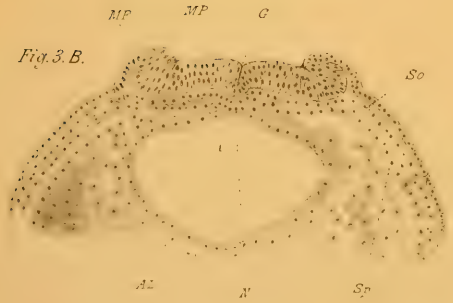

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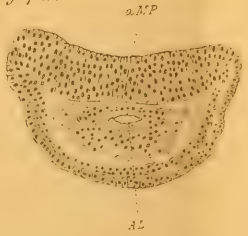

Fig. 11.

Fig. 9.D.

Orr del.

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Fig. 12. E.

Fig. 13. E.

Fig. 17. G.

Orr del.

Fig. 14. F.

Fig. 15. F.

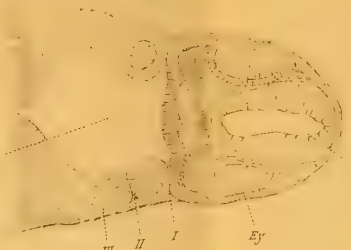


Fig. 16. F.

Fig. 18.

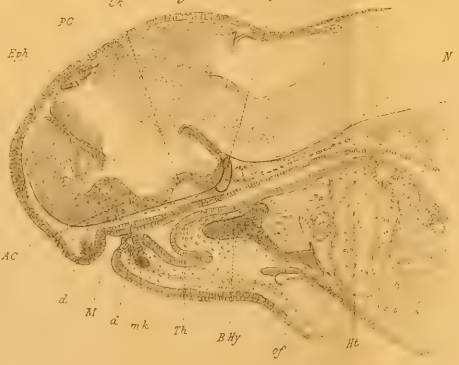


Fig. 19.

Fig. 20.

Fig. 21.

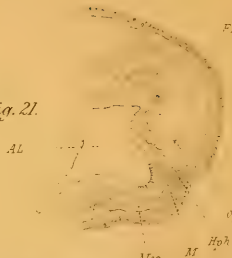
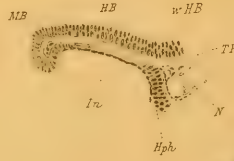


Fig. 22.

Fig. 23.

Fig. 24. G.



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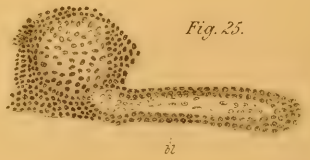

F Ruth, Lith^r Edin^r

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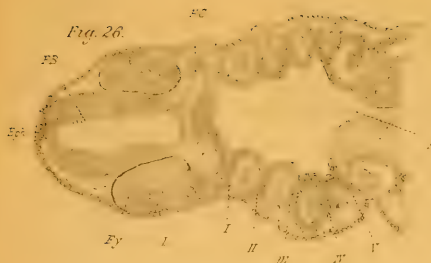

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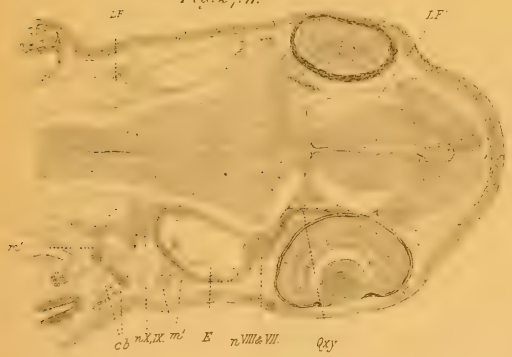
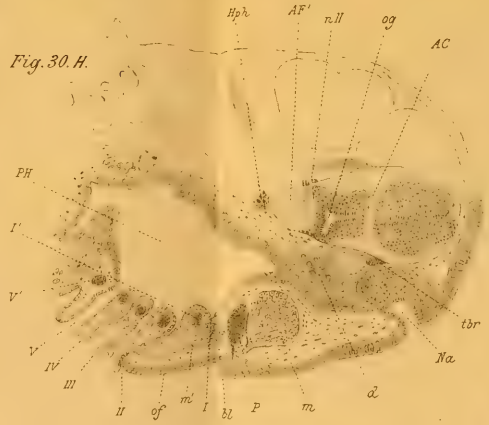


Fig. 28. H.

Orr del.

Fig. 29. H.

Fig. 30. H.



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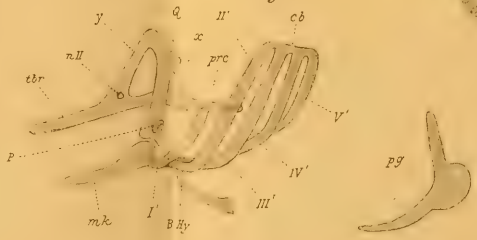

Fig. 32. G.

Fig. 33.

Fig. 35.

Fig. 34.

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Fig. 2.

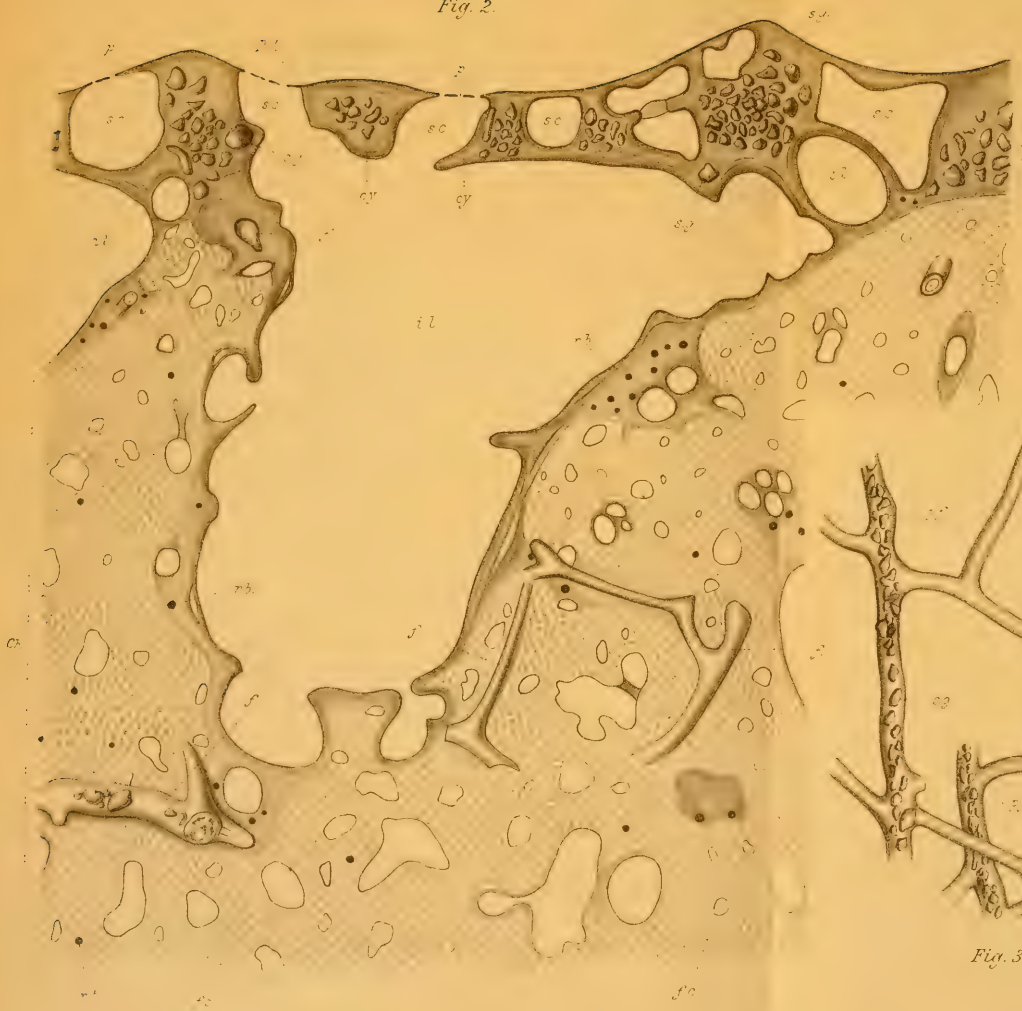

Fig. 1.

nat size.

Fig. 3.

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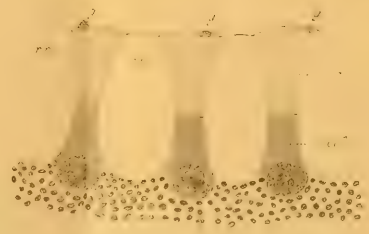
Fig. 4.

Fig. 5.

Fig. 6.

Fig. 8.



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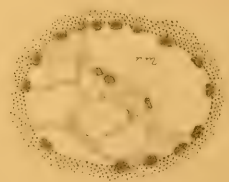

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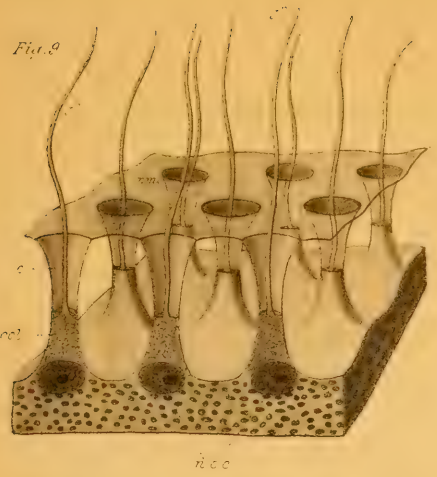
Fig. 9.



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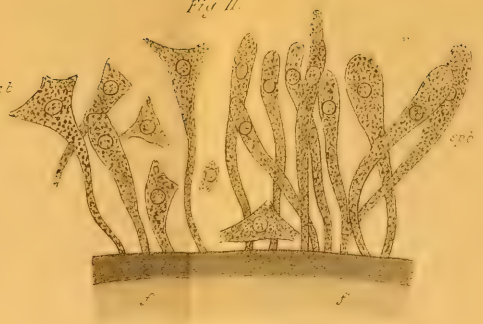
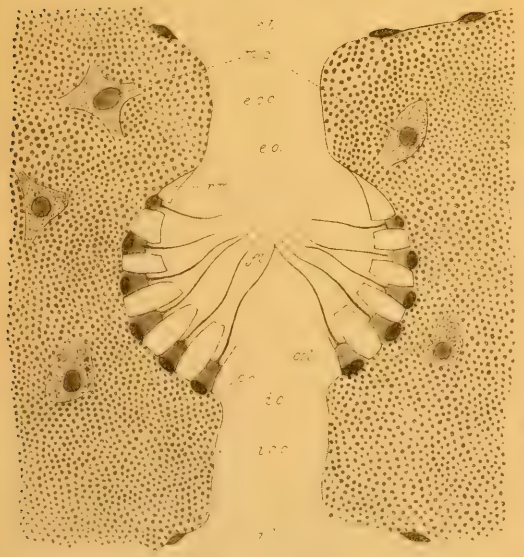


Fig. 13.

Fig. 14.

Fig. 10.



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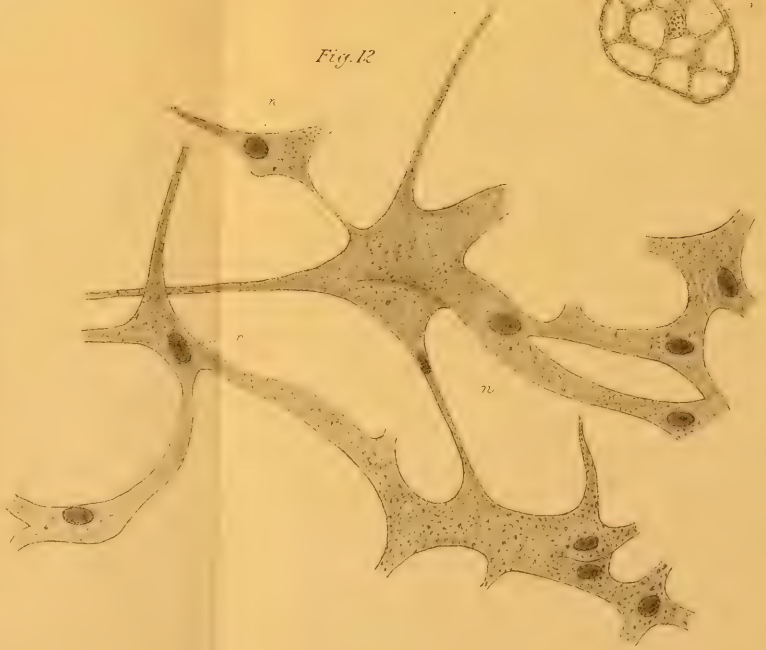

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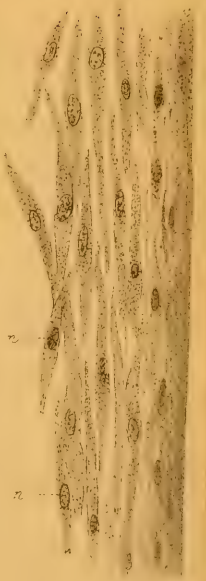

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Fig. 23.

Fig. 16.

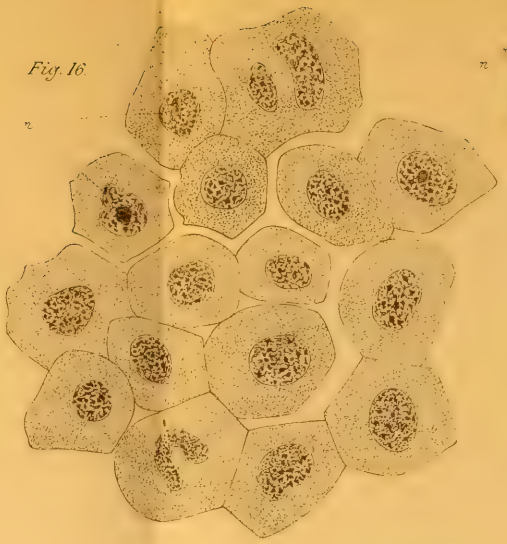


Fig. 22.

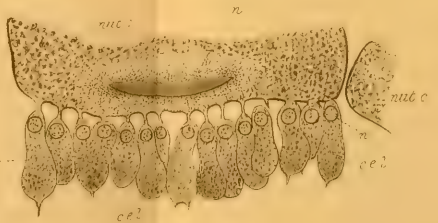
Fig. 19.

Fig. 20.

Fig. 17.

Fig. 18.

Fig. 21.



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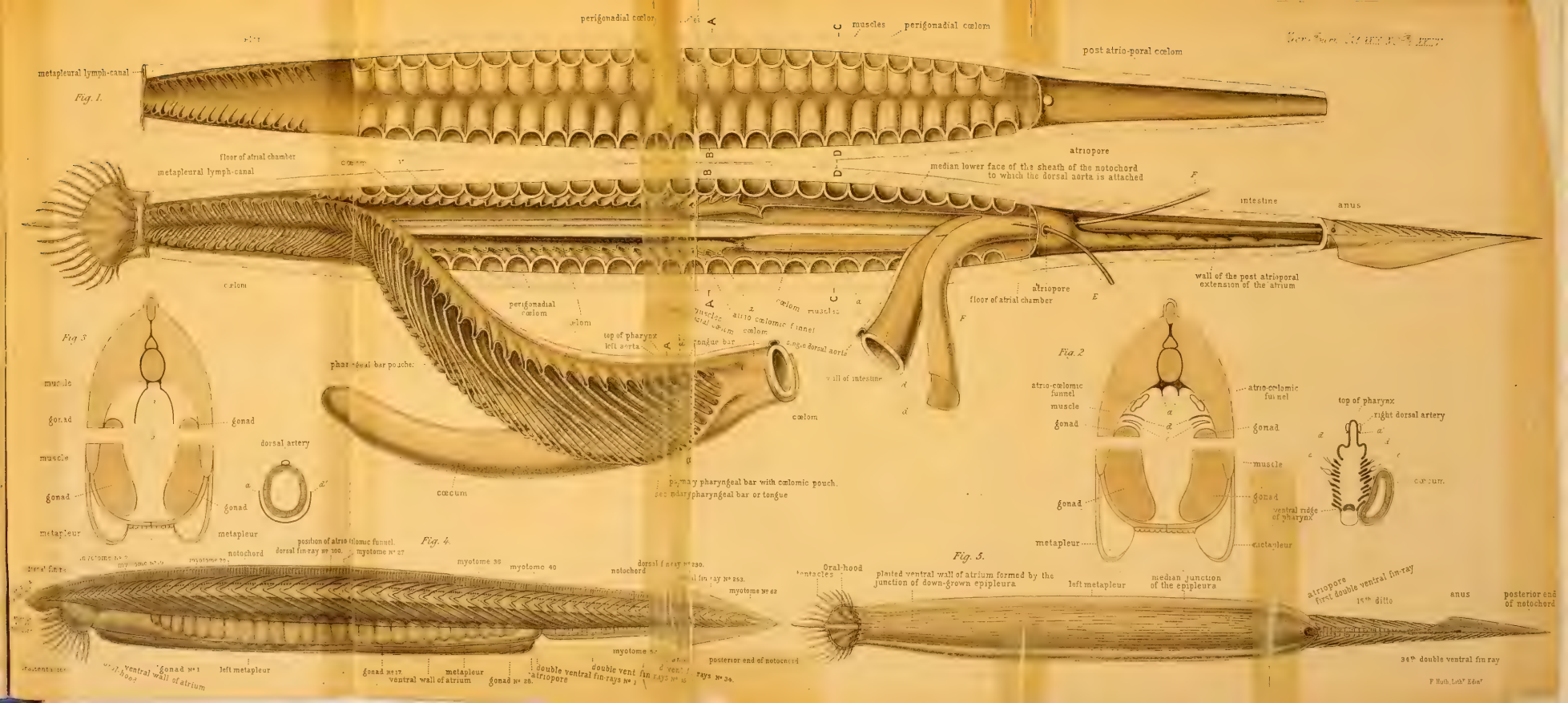


Fig. 1.
metapleural lymph-canal
floor of atrial chamber
metapleural lymph-canal
cœlom
perigonadial cœlom
muscles
perigonadial cœlom
post atrio-poral cœlom
atriopore
median lower face of the sheath of the notochord to which the dorsal aorta is attached
intestine
anus
wall of the post atrioporal extension of the atrium
atriopore
floor of atrial chamber
cœlom
perigonadial cœlom
top of pharynx
left aorta
pharyngeal bar pouche
tongue bar
single dorsal aorta
wall of intestine
cœlom
cœcum
primary pharyngeal bar with cœlomic pouch.
secondary pharyngeal bar or tongue
Fig. 3
muscle
gonad
muscle
gonad
metapleur
gonad
dorsal artery
gonad
metapleur
Fig. 4.
position of atrio cœlomic funnel.
dorsal fin-ray № 100.
myotome № 27
myotome 36
myotome 40
notochord
dorsal fin-ray № 230.
dorsal fin-ray № 253.
myotome № 62
myotome
posterior end of notochord
gonad № 1
left metapleur
ventral wall of atrium
gonad № 17.
metapleur
ventral wall of atrium
gonad № 28.
atriopore
double ventral fin-rays № 1
double vent fin rays № 30.
Fig. 2
atrio-cœlomic funnel
muscle
gonad
gonad
muscle
gonad
ventral ridge of pharynx
metapleur
ectapleur
top of pharynx
right dorsal artery
cœcum.
Fig. 5.
Oral-hood
tentacles
plaited ventral wall of atrium formed by the junction of down-grown epipleura
left metapleur
median junction of the epipleura
atriopore
first double ventral fin-ray
15th ditto
anus
posterior end of notochord
34th double ventral fin ray
F Huth, Lith. Edinr.

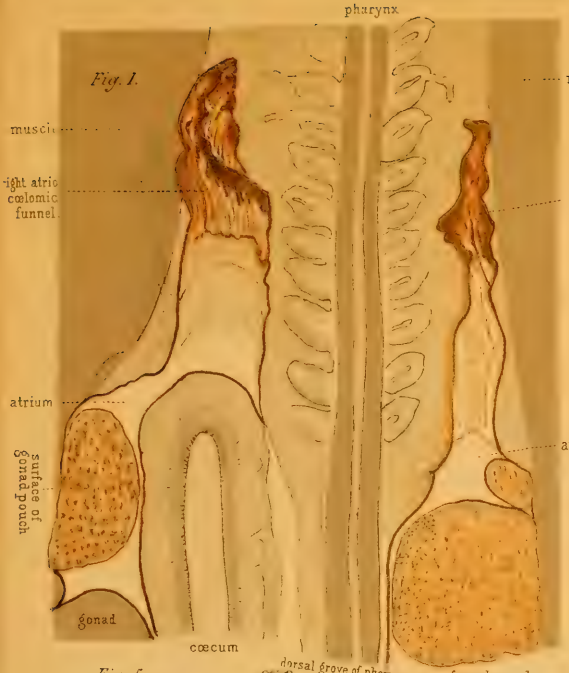


Fig. 1.
pharynx
muscle
muscle
right atrio-cœlomic funnel.
left atrio-cœlomic funnel.
atrium
surface of gonad pouch
atrium.
gonad
cœcum
dorsal grove of pharynx.
gonad pouch.

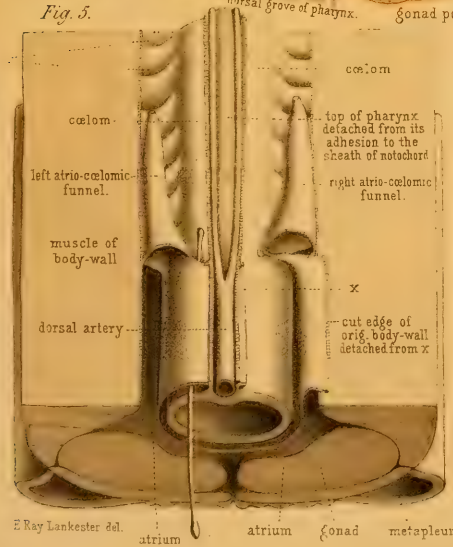


Fig. 5.
openings of cœlomic pouches of pharyngeal bars.
cœlom
cœlom
top of pharynx detached from its adhesion to the sheath of notochord
left atrio-cœlomic funnel.
right atrio-cœlomic funnel.
muscle of body-wall
x
dorsal artery
cut edge of orig. body-wall detached from x
E Ray Lankester del.
atrium
atrium
gonad
metapleur

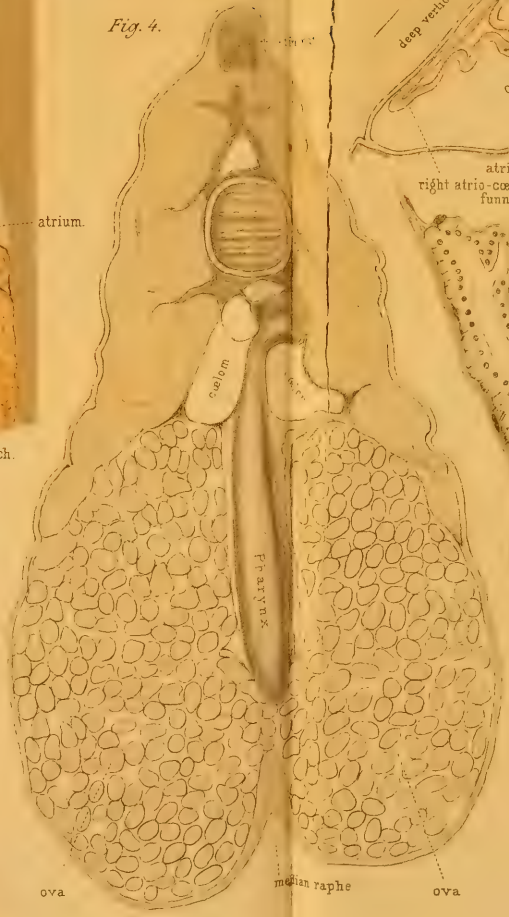


Fig. 4.
cœlom
Pharynx
ova
median raphe
ova

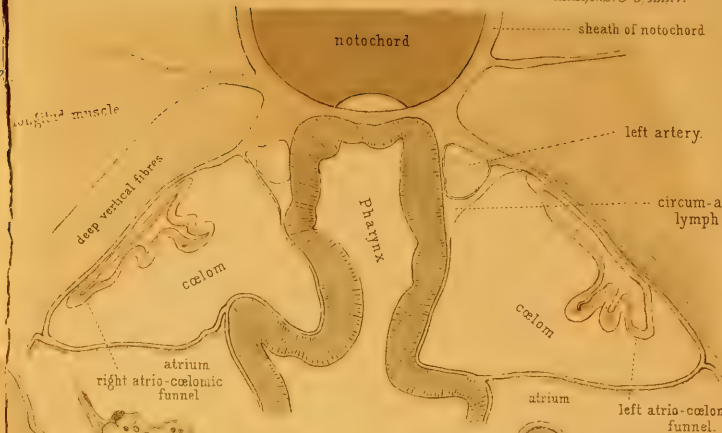


Fig. 2.
notochord
sheath of notochord
left artery
circum-arterial lymph space
deep vertical fibres
Pharynx
cœlom
cœlom
atrium
right atrio-cœlomic funnel
atrium
left atrio-cœlomic funnel.

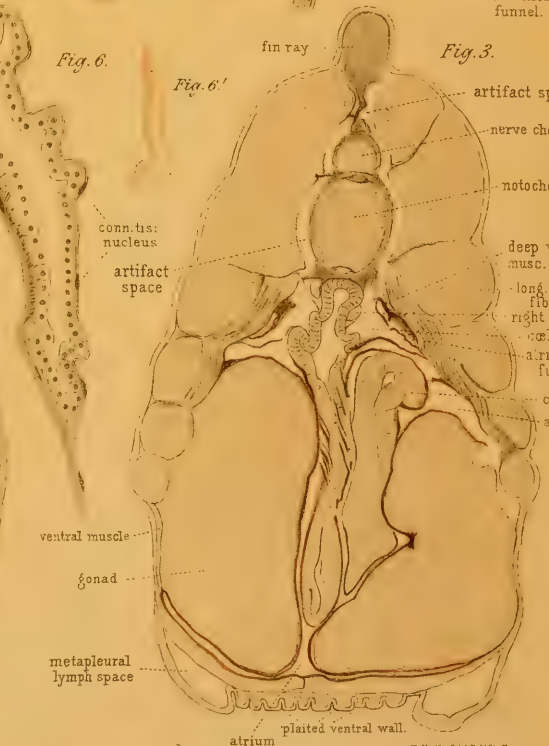
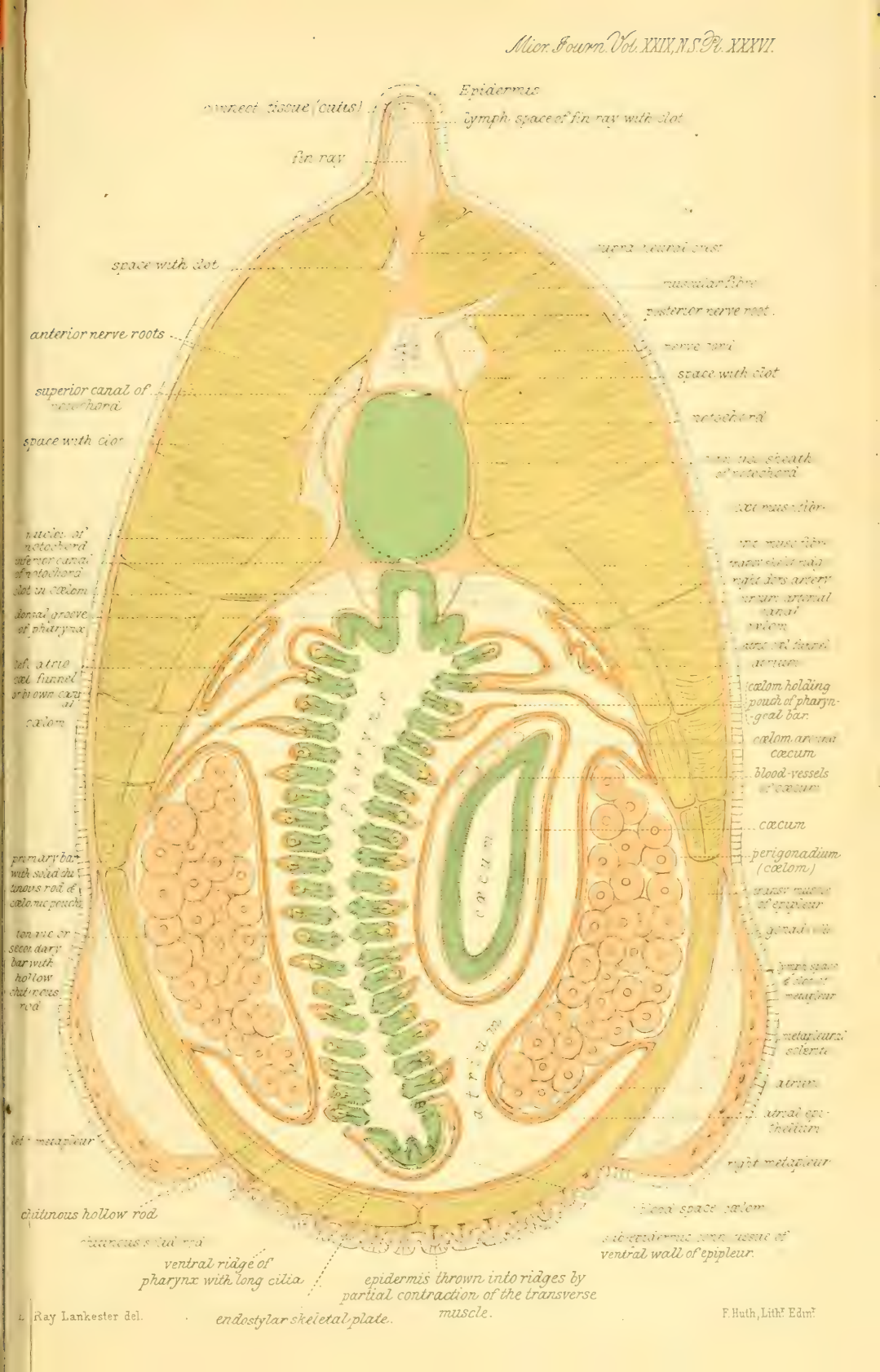


Fig. 6.
Fig. 6.'
Fig. 3.
fin ray
artifact space
nerve chord
notochord
connectis: nucleus
artifact space
deep vertical musc. fibres
long. musc fibres
right artery
cœlom
atrio-cœlo. funnel
cœcum
atrium
ventral muscle
gonad
metapleural lymph space
plaited ventral wall.
atrium
F. Huth, Lith.r Edin.r



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F. Huth, Lith. Edin.

Fig. 1.

Fig. 2.

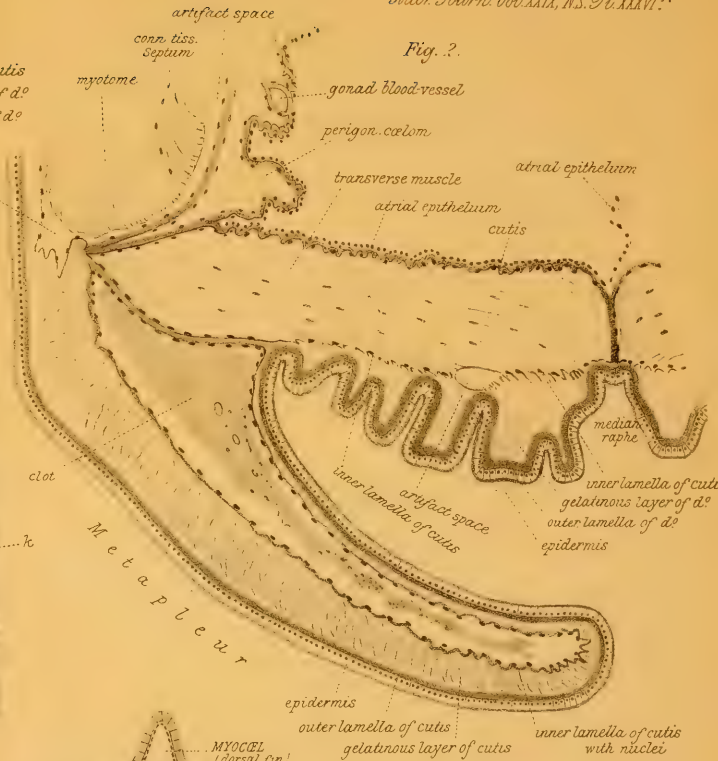


Fig. 3.

Fig. 5.

Fig. 4.

Fig. 7.

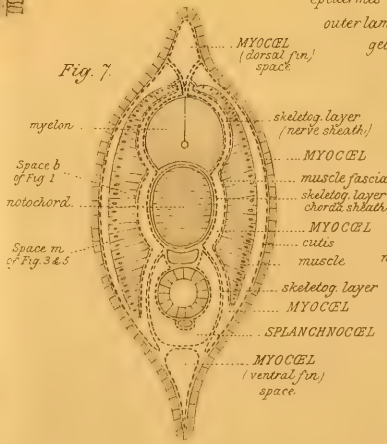
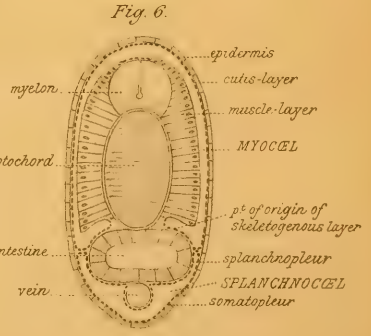


Fig. 6.



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F Huth, Lith^r Edin^r

Fig. 1.
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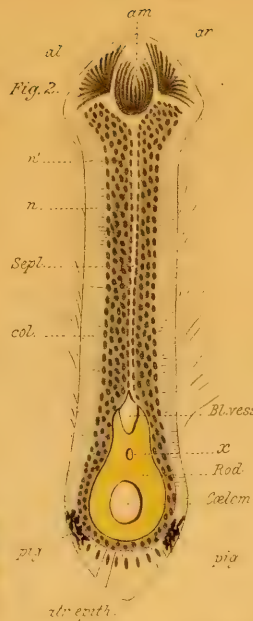
Fig. 2.
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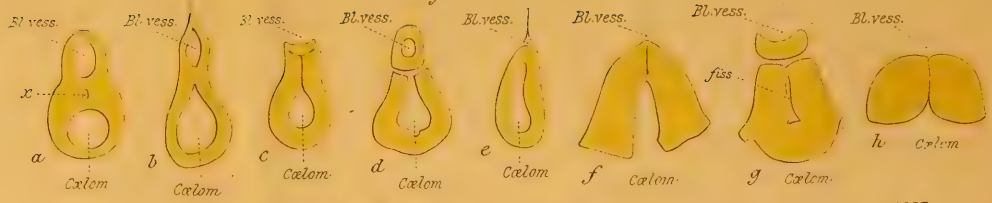
Fig. 3.
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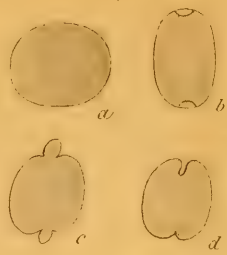
Figg. 10.
a
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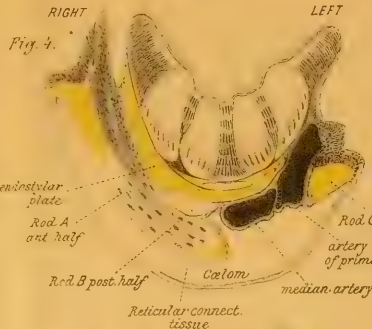
Fig. 4.
RIGHT
LEFT
endostylar plate
Rod A ant half
Rod B post half
Cœlom
median artery
artery to fork of primary bar
Rod C post half
Reticular connect. tissue

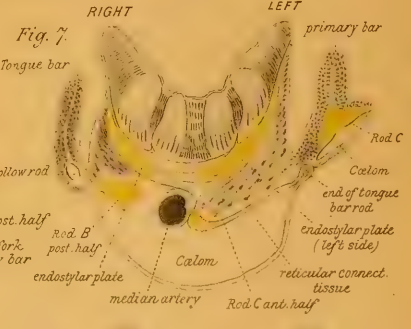
Fig. 7.
RIGHT
LEFT
primary bar
Tongue bar
hollow rod
Rod C
Cœlom
end of tongue bar rod
endostylar plate (left side)
Rod B post. half
Cœlom
endostylar plate
median artery
Rod C ant. half
reticular connect. tissue

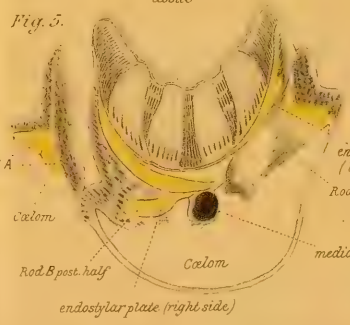
Fig. 5.
Rod A
Cœlom
Rod B post half
Cœlom
median artery
endostylar plate (right side)

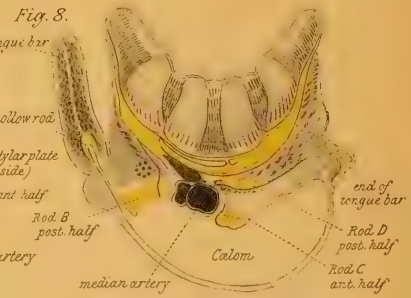
Fig. 8.
tongue bar
hollow rod
endostylar plate (left side)
Rod C ant half
Rod B post. half
Cœlom
median artery
end of tongue bar
Rod D post. half
Rod C ant. half

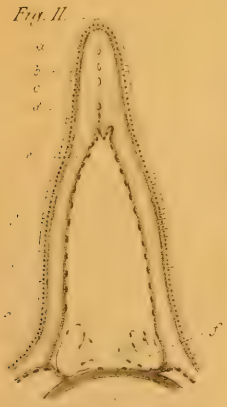
Fig. 11.
a
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Fig. 12.

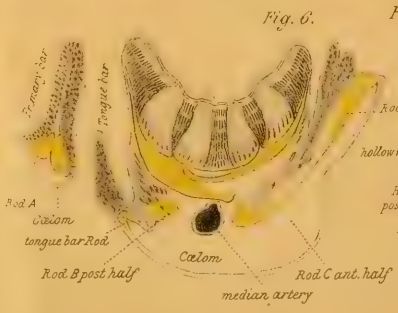
Fig. 6.
primary bar
Tongue bar
Rod A
Cœlom
tongue bar Rod
Rod B post half
Cœlom
Rod C ant. half
median artery

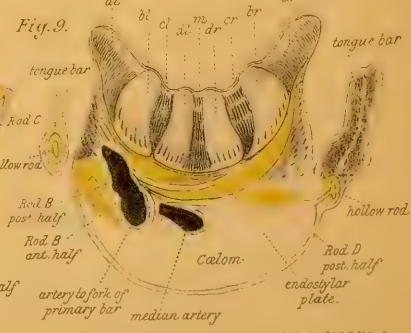
Fig. 9.
al
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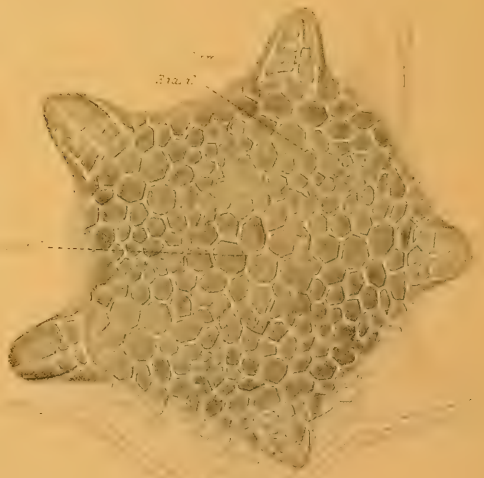
tongue bar
Rod C
hollow rod
Rod B post half
Rod B ant. half
Cœlom
artery to fork of primary bar
median artery
hollow rod
Rod D post. half
endostylar plate

Fig 2

Fig 3



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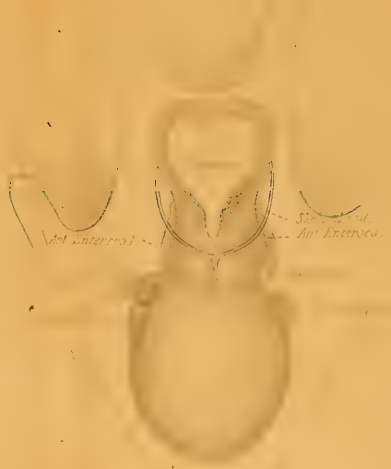


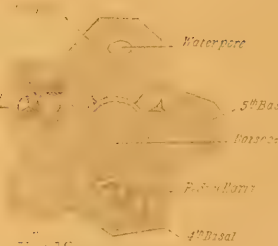
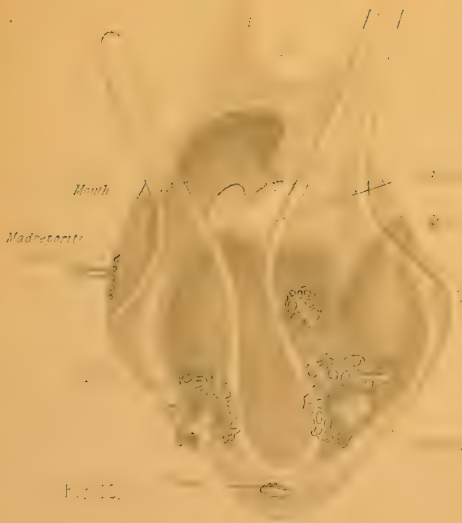
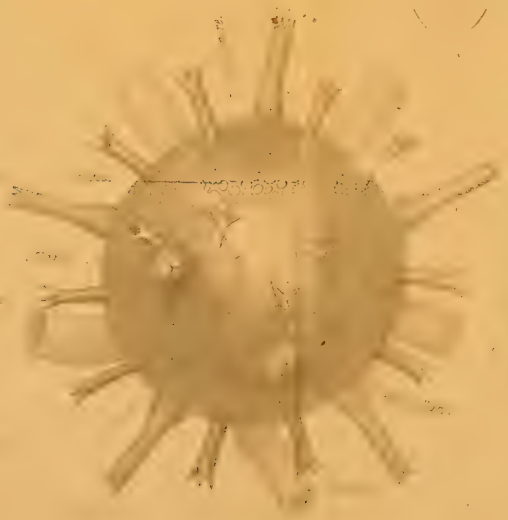


Fig 11.





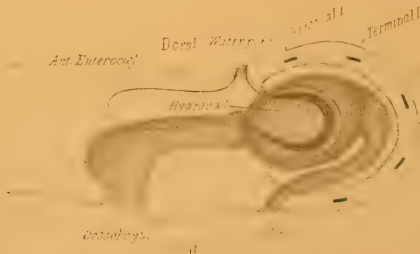


Fig 12.

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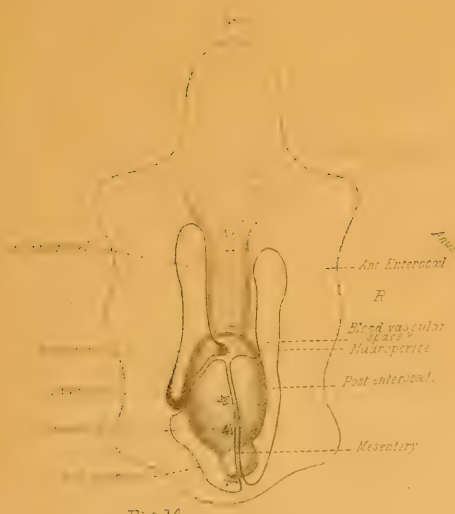


Fig. 14.

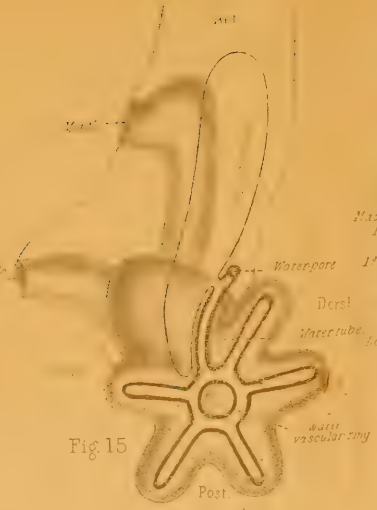
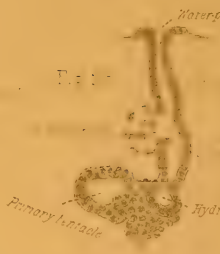


Fig. 15

Fig. 16.

Fig. 23.



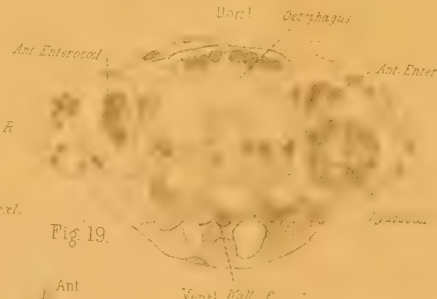
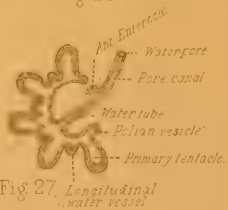


Fig. 19.

Fig 22

Fig 26

Fig 24.



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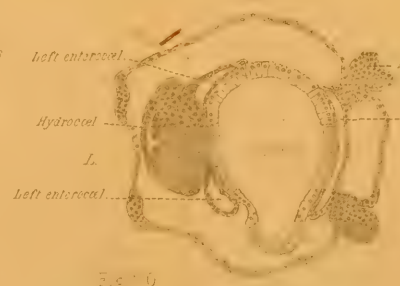

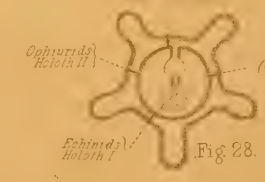

Fig 28.

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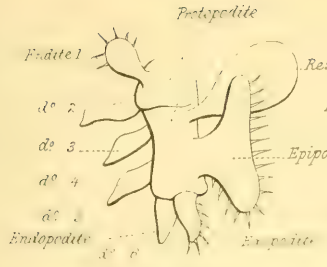


Fig 1 Apus.

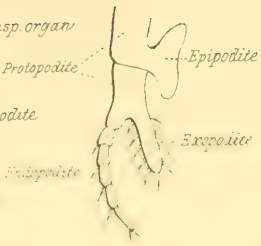


Fig. 2. Nebalia.

Fig. 3. Thysanopoda.

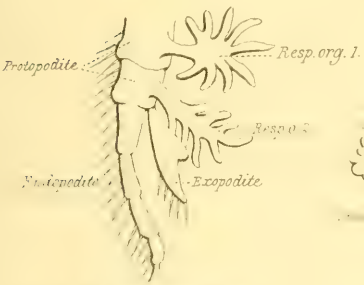


Fig 4 Nematoscelis.

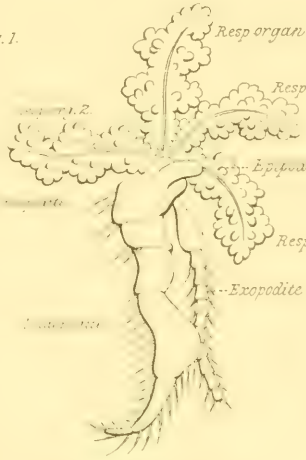
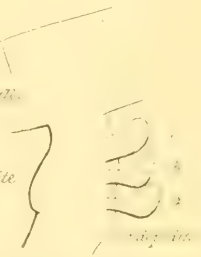


Fig. 5. Gnathophausia.



Mysis stage of Penæus.

Fig. 6. Penæus Larva.

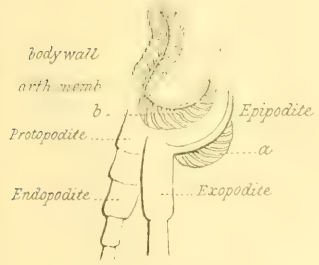


Fig. 7. Calliaxis Larva.

Later stage of Penæus Fig. 6'

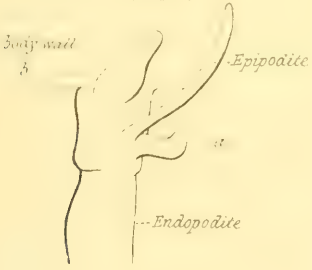
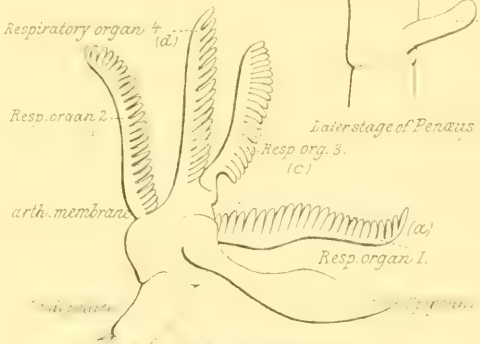


Fig. 8. Acanthocaris Larva.



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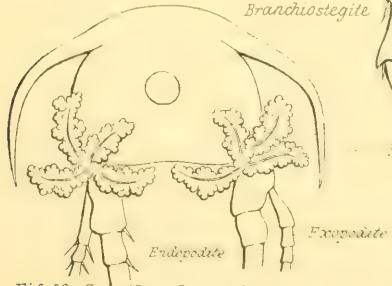

Fig. 10. Gnathophausia.

Fig. 11. Astacus

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